



March 3, 2023

Mr. Craig Thomas
Federal On-Scene Coordinator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Subject: Removal Action Report, Revision 1
Taracorp Industries Site – RV
Lyons, Cook County, Illinois
EPA Contract No.: 68HE0519D0005 (START V, Region 5)
Task Order-Task Order Line Item No.: F0032-0001BH103
Document Tracking No.: 1546a

Dear Mr. Thomas:

Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting this Removal Action Report, Revision 1, for the Taracorp Industries Site RV (the Site) in Lyons, Cook County, Illinois, for your review and comment. This report summarizes the U.S. Environmental Protection Agency (EPA) removal action conducted from September 2020 through September 2022. Attachment 1 is provided as a separate document.

Please call me at (312) 201-7763 if you have any questions or comments regarding this submittal.

Sincerely,

A handwritten signature in black ink, appearing to read "Alexis Enright".

Alexis Enright
Project Manager

Enclosure (1)

cc: Karl Schultz, Tetra Tech Program Manager

TO-TOLIN File

**REMOVAL ACTION REPORT
TARACORP INDUSTRIES SITE – RV
LYONS, COOK COUNTY, ILLINOIS 60608**

Revision 1

Prepared for

U.S. Environmental Protection Agency
Emergency Response Branch
Region 5
77 West Jackson Boulevard (SE-5J)
Chicago, Illinois 60604

Submitted by

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Tetra Tech, Inc. (Tetra Tech) to provide support during a time-critical removal action at the Taracorp Industries Site (the Site) located in Lyons, Cook County, Illinois. This work was assigned under Superfund Technical Assessment and Response Team (START) Contract 68HE0519D0005, Task Order-Task Order Line Item Number (TO-TOLIN) F0032-0001BH103.

As a part of the removal action, the EPA tasked Tetra Tech START with the following removal activities:

- Develop and implement site-specific work plans, including the Emergency Contingency Plan (Tetra Tech 2021) and the Air Monitoring and Sampling Analysis Plan (Tetra Tech 2020);
- Conduct property evaluations, including pre and post excavation elevation surveys to track excavation area depths;
- Perform real-time air monitoring and conduct air sampling to identify potential off-site migration of contaminants;
- Conduct confirmation soil sampling and screening to ensure clean material is reached prior to backfill;
- Performed analytical data validation and data management;
- Provide oversight of the removal activities conducted by the Emergency and Rapid Response Services (ERRS) contractor, Environmental Restoration, LLC (ER); and
- Develop a Removal Action Report and perform project closeout.

The purpose of the time-critical removal action was to mitigate the threats to public health, welfare, and the environment posed by the presence of lead-contaminated surface soil at residential properties located at the Site by properly excavating and disposing of lead-contaminated soil from the residential yards off-site. In addition, the EPA committed to conducting air monitoring during removal activities to ensure the safety of on-site workers and to ensure that off-site migration of fugitive emissions from the removal did not adversely affect neighboring residential areas.

This removal action report documents removal activities that took place at the Site from September 19, 2020, through September 1, 2022.

This removal action report includes the site description and site location in Section 2.0, descriptions of the removal action in Section 3.0, a summary of removal activities in Section 4.0, and references in Section 5.0.

Site Figures 1 through 3 are provided in Appendix A; photographic documentation is provided in Appendix B; tables are provided in Appendix C; supporting documents are in Appendix D; and laboratory reports are provided in Attachment 1.

2.0 SITE BACKGROUND

This section describes the Site and the site location.

2.1 SITE LOCATION

The Site, located in a mixed residential, commercial, and industrial area, includes the residential removal area north of the former Taracorp facility and the command post and staging area for the removal action. The residential removal area is located in Lyons and McCook, Cook County, Illinois, and is bounded by Black Trail to the east; 45th Street to the north from Black Trail to Amelia Avenue; Amelia Avenue to the west from 45th Street to 47th Street; and 47th Street to the south (Appendix A, Figure 1). The former Taracorp facility is located at 7753 West 47th Street in McCook, Cook County, Illinois. The command post and staging area are located at 7601 47th Street in McCook, Cook County, Illinois (Appendix A, Figure 1).

2.2 SITE DESCRIPTION

The Taracorp Industries facility was a secondary lead smelter that operated from 1979 to 1983. The secondary lead smelting industry consists of facilities that recycle lead-bearing scrap material into elemental lead or lead alloys. Primary smelters can produce lead bullion from raw lead ore. Prior to Taracorp's operations, the facility was operated by National Lead Industries, Inc., beginning in the mid-1960s. The facility was included in the Comprehensive Environmental Response, Compensation, and Liability Information System (now the Superfund Enterprise Management System) in 1980 based on elevated lead levels on the property. Scrap and waste material from the property was allegedly removed after Taracorp ceased operations in 1983 (Illinois EPA [IEPA] 2017). A portion of the property was leased for a truck terminal and maintenance garage in the 1980s. In 1990, the property was purchased by a construction demolition company. The property is currently in use by MBT Transport, a trucking company.

In the 1980s, the IEPA conducted a Preliminary Assessment and Site Inspection that found evidence of elevated lead levels on the Taracorp property; however, access to the property was limited. A 2015 IEPA Site Reassessment investigation included the former Taracorp facility property and residential properties north of the property. X-ray fluorescence (XRF) screening and fixed laboratory results for 15 assessed residential properties determined that lead was present in soil at concentrations ranging from 157 parts per million (ppm) to 970 ppm. Lead concentrations at seven residential properties were above the residential EPA's Removal Management Level (RML) of 400 ppm for lead in residential soil. IEPA sample results only identified lead as a contaminant of concern (IEPA 2017).

In 2017, IEPA requested the assistance of the EPA Removal Program based on the results of the 2015 Site Reassessment. IEPA requested a time-critical removal action be performed at the site as the Site did not qualify for additional CERCLA Site Assessment Activities, and residential RML exceedances were identified (IEPA 2017). Subsequently, in 2018, EPA requested START assistance in conducting a removal assessment at the Site. From June 12, 2018, to July 6, 2022, 23 soil sampling events were conducted by EPA and START at the Site.

From June 12, 2018, to November 15, 2019, initial sampling for EPA's Removal Assessment was conducted through five soil sampling events. Properties sampled during the EPA Removal Assessment were assigned a number to protect the owners, renters, or leaser personally identifiable information (PII) from being revealed. Access had been granted for 57 residences and one school in the investigation area. Lead was detected at concentrations exceeding EPA RML of 400 ppm in surface soils (0 to 12 inches below ground surface [bgs]) at 28 residential properties. The highest residential concentration detected was 1,160 ppm. Based on the sampling results, EPA established a residential removal area boundary (Appendix A, Figure 2). Following the initial soil sampling events, START submitted the Interim Removal Assessment Report Revision 2 to EPA on June 26, 2020, which summarized assessment activities and concluded that contamination in the residential areas posed a risk for potential exposure and was a threat to human health, welfare, and the environment. The conditions at the Site met the criteria for a time-critical removal action, as provided for in the National Contingency Plan (NCP), 40 CFR. § 300.415(b)(2).

The Site removal action began on September 19, 2020.

An additional 18 sampling events were conducted from October 28, 2020, to July 6, 2022, throughout the removal action at previously unsampled properties within the delineated boundary to identify potential exceedances of the residential EPA RML criteria for lead in soil. Of the 76 additional residential properties sampled, concentrations of lead in soil at 53 properties were above the EPA RML in surface soils (0 to 24 inches bgs). The highest residential concentration detected was 1,300 ppm.

While lead was the only contaminant of concern identified by the IEPA in 2015, laboratory analysis detected the presence of other metals in residential soil at the Site. One property sampled in 2018 and one property sampled in 2019 had arsenic concentrations of 263 ppm and 111 ppm, which exceeded the residential EPA RML for arsenic of 68 ppm. Both samples that exceeded the RML for arsenic also exceeded the RML for lead. An additional eight properties sampled from May 2019 to November 2019 contained thallium at concentrations up to 6.5 ppm, exceeding the residential EPA RML for thallium in

soil of 2.3 ppm. Thallium contamination was found to be non-site related. Properties that did not also exceed the RML for lead in residential soil did not qualify for removal.

The details of these assessment activities are described in the Tetra Tech Final Removal Assessment Report (Tetra Tech 2023).

3.0 REMOVAL ACTION ACTIVITIES

From September 19, 2020, through September 1, 2022, EPA, START, and EPA's Emergency and Rapid Response Services (ERRS) contractor, conducted a time-critical removal action at the Taracorp Industries site to remove lead-contaminated soil. The EPA On-Scene Coordinator (OSC) was Craig Thomas. The START contractor was Tetra Tech, and the ERRS contractor was Environmental Restoration, LLC (ER).

Removal activities were conducted under the direction of the on-site EPA OSCs and in accordance with the site Action Memorandum (EPA 2020). In support of the time-critical removal action at the Site, START completed the following activities as tasked by EPA:

- Developed and implemented an Air Monitoring and Sampling Analysis Plan (AMSAP);
- Conducted sampling of backfill and topsoil sources to evaluate potential contamination of fill material;
- Conducted pre and post excavation elevation surveys to track excavation area depths;
- Performed real-time air monitoring and conducted air sampling to identify potential off-site migration of contaminants;
- Conducted confirmation sampling and screening from the bottom of each excavation area;
- Oversaw work conducted by the ERRS contractor; and
- Collected written, digital, and photographic documentation of site conditions and activities.

In support of the time-critical removal action at the Site, the ERRS contractor completed the following activities as tasked by EPA:

- Provided site-specific plans, including the Site Health and Safety Plan;
- Conducted individual property evaluations prior to removal activities;
- Excavated lead contaminated soil to a depth of approximately two feet below ground surface (bgs) at residential properties;
- Replaced excavated soil with clean topsoil and backfill and restored the Site to pre-removal conditions;
- Tracked disposal material quantities and fill material quantities;
- Arranged for off-site transportation and disposal of waste and contaminated soil; and
- Addressed any release or potential release of a hazardous substance, pollutant, or contaminant.

The removal action is discussed in Section 3.0 as three general activities: (1) contaminated soil removal activities, (2) air monitoring and sampling, and (3) demobilization. Field notes are available upon request.

3.1 CONTAMINATED SOIL REMOVAL ACTIVITIES

From September 19, 2020, through September 1, 2022, EPA (OSC Thomas) and START conducted oversight while ERRS performed the removal and off-site disposal of 11,317.75 tons of hazardous lead-contaminated soil from 76 residential properties at the Site. The removal action consisted of excavation and off-site disposal of soil, confirmation sampling, excavation area XRF screening, elevation surveys, and backfill and site restoration. The removal action was completed in three phases due to limitations created by winter weather conditions. The removal area is shown in Figure 4 of Appendix D. A property summary with property IDs and corresponding addresses is provided in Table 6 of Appendix D. START conducted oversight of removal activities. Photographic documentation is provided in Appendix B. A summary of activities is listed below:

- **September 19 through November 9, 2020:**

- Mobilized EPA, ERRS contractor, and START equipment and personnel to the Site
- Conducted staging area soil sampling to evaluate potential background contamination
- Completed site setup and establishment of backfill stockpile of clean soil
- Obtained access agreements to conduct removal activities at residential properties
- Produced excavation maps for each property where contamination was identified during removal assessment activities
- Conducted pre-excavation elevation surveys of contaminated yards at residential properties
- Removed contaminated soil from properties 19, 23, 24, 25, and the Village of Lyons right-of-way parkways
- Conducted residential perimeter and staging area air monitoring during removal activities to identify potential off-site migration of contaminated dust
- Implemented dust control measures (i.e. water suppression) during hot, dry, windy conditions, or when air monitoring indicated elevated dust levels
- Collected confirmation soil samples at the bottom of the excavation at final depth
- Sent confirmation samples for off-site laboratory analysis and screened soil samples on-site for lead levels using an XRF analyzer
- Conducted post-excavation elevation surveys of contaminated yards at residential properties
- Backfilled properties and Village of Lyons right-of-way parkways with clean backfill and topsoil
- Laid sod and replanted vegetation at all properties and city parkways
- Conducted restoration elevation surveys
- Demobilized crew and equipment from the Site
- Distributed letters to residential property owners indicating their property is below cleanup objectives
- Disposed of 1,405.02 tons of hazardous lead-contaminated soil at an off-site landfill (Laraway Recycle and Disposal Facility in Elwood, Illinois)

- **April 19 through November 15, 2021:**

- Mobilized EPA, ERRS contractor, and START equipment and personnel to the Site

- Obtained access agreements to conduct removal activities at residential properties
Produced excavation maps for each property where contamination was identified during removal assessment activities
 - Conducted pre-excavation elevation surveys of contaminated yards at residential properties
 - Removed contaminated soil from properties 2, 3, 6, 9, 11, 12, 15, 16, 22, 26, 27, 28, 30, 31, 32, 36, 37, 49, 51, 53, 54, 60, 61, 63, 64, 65, 66, 70, 71, 73, 74, 75, 82, 84, 85, 91, 92, 93, 95, 96, 97, 99, 105, 109, 115, 116, 117, and the Village of Lyons right-of-way parkways
 - Conducted residential perimeter and staging area air monitoring during removal activities to identify potential off-site migration of contaminated dust
 - Implemented dust control measures (i.e. water suppression) during hot, dry, windy conditions, or when air monitoring indicated elevated dust levels
 - Collected confirmation soil samples at the bottom of the excavation at final depth
 - Sent confirmation samples for off-site laboratory analysis and screened soil samples on-site for lead levels using an XRF analyzer
 - Conducted post-excavation elevation surveys of contaminated yards at residential properties
 - Backfilled properties and Village of Lyons right-of-way parkways with clean backfill and topsoil
 - Laid sod and replanted vegetation at all properties and city parkways
 - Conducted restoration elevation surveys
 - Demobilized crew and equipment from the Site
 - Distributed letters to residential property owners indicating their property is below cleanup objectives
 - Disposed of 6,862.43 tons of hazardous lead-contaminated soil at an off-site landfill (Laraway Recycle and Disposal Facility in Elwood, Illinois)
- **April 18 through September 1, 2022:**
- Mobilized EPA, ERRS contractor, and START equipment and personnel to the Site
 - Obtained access agreements to conduct removal activities at residential properties
 - Produced excavation maps for each property where contamination was identified during removal assessment activities
 - Conducted pre-excavation elevation surveys of contaminated yards at residential properties
 - Completed soil removal from properties 10, 13, 17, 18, 23, 80, 94, 98, 100, 104, 107, 110, 118, 120, 121, 122, 125, 127, 128, 130, 131, 134, and the Village of Lyons right-of-way parkways
 - Conducted residential perimeter and staging area air monitoring during removal activities to identify potential off-site migration of contaminated dust
 - Implemented dust control measures (i.e. water suppression) during hot, dry, windy conditions, or when air monitoring indicated elevated dust levels
 - Conducted on-site soil screening at excavation area final depths for lead levels using an XRF analyzer
 - Conducted post-excavation elevation surveys of contaminated yards at residential properties
 - Backfilled properties and Village of Lyons right-of-way parkways with clean backfill and topsoil
 - Laid sod and replanted vegetation at all properties and city parkways
 - Conducted restoration elevation surveys

- Distributed letters to residential property owners indicating their property is below cleanup objectives
- Collected staging area confirmation samples
- Demobilized crew and equipment from the Site
- Disposed of 3,050.3 tons of hazardous lead-contaminated soil at an off-site landfill (Laraway Recycle and Disposal Facility in Elwood, Illinois)

Staging Area Preparation and Sampling

The EPA selected 7601 West 47th Street, McCook, Illinois, as the staging area location for personnel, equipment, a contaminated material stockpile, and clean fill stockpiles. During the initial phase of the removal action, ERRS conducted general site setup activities, including equipment maintenance and preparation, field office trailer setup, and preparation of areas for staging clean topsoil and backfill stockpiles, and a contaminated material stockpile. A designated area for contaminated material was established to allow removal activities to proceed as needed. Material was loaded out from the staging area as trucks were available for transportation to a disposal facility. Containment measures were installed around the contaminated stockpile area for runoff.

START conducted sampling of the staging area on September 21, 2020, prior to excavation activity to obtain baseline results of surface material. Three soil samples and one duplicate were collected from 0 to 3 inches bgs and sent to Eurofins Environment Testing America in University Park, Illinois, for laboratory analysis. Pre-removal activity staging area soil samples were analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260B, semivolatile organic compounds (SVOCs) by SW-846 Method 8270D, pesticides by SW-846 Method 8081B, polychlorinated biphenyl compounds (PCBs) by SW-846 Method 8082A, herbicides by SW-846 Method 8151A, and metals by SW-846 Methods 6010B and 7471B. Staging area sample locations are provided on Figure 3 of Appendix A. Sample results were compared to EPA RMLs for industrial soil, no exceedances were identified. Validated staging area soil sample results are provided in Table 1 of Appendix C.

Excavation and Offsite Disposal

The EPA obtained access agreements to conduct removal activities for 76 residential properties, in which lead contamination was identified during the removal assessment. Five properties owners declined to proceed with removal. Contaminated soil was excavated from 76 residential properties and the adjacent Village of Lyons rights-of-way (parkways). The Village of Lyons parkway was not tested during the EPA Removal Site Assessment; however, XRF screening during the removal activities indicated lead in soil above RMLs. Excavators and hand tools were used for excavation. Soil was excavated to a depth of up to 24 inches bgs determined by excavation depth confirmation sampling and in-situ XRF screening during

removal activities. Overdigs were conducted in some circumstances where contaminated material was identified deeper than 24 inches bgs. In total, 11,317.75 tons of soil from the residential properties and Village of Lyons parkways were transported and stockpiled in the staging area then loaded into trucks for disposal as nonhazardous waste at Laraway Recycling and Disposal Facility (RDF) in Elwood, Illinois. Soil volumes were tracked by ERRS. Equipment was decontaminated before being used for backfill activities, and prior to being transported to the following property.

During excavation when elevated lead levels were identified at depths greater than the scope of the removal, orange snow fencing was placed as a barrier only on top of the elevated section to denote remaining contamination. Barrier fencing was not placed where obstructions were encountered before 24 inches bgs unless particularly elevated levels were identified on or around the obstruction. At Properties 22, 25, 26, 28, 60, 85, and 91, an orange snow fence was laid over portions of the excavated areas to denote remaining contamination. The excavated areas were then backfilled with clean soil. The table below presents all properties and specific locations where removal was conducted. The maximum depth of each location is listed, along with coinciding obstructions encountered during excavation. Information regarding the specific barrier location is available upon request.

A property summary including property IDs and corresponding property addresses is provided in Table 6 of Appendix D.

Excavation Depth XRF Screening

In 2017, EPA Field Environmental Decision Support Team (FIELDS) performed a regression analysis on results for soil samples collected during the EPA Removal Assessment which established a site-specific XRF-based cleanup goal of 252 ppm with a 95% confidence interval. During the excavation process, additional soil was removed and rescreened when lead concentrations were above the cleanup objective. Sampling, screening, and excavating continued until lead concentrations were below 252 ppm, except where obstacles, such as tree roots, native bedrock, or adjacent building foundations, prevented further excavation.

Confirmation Soil Sampling

Composite samples were collected from the bottom of several excavation areas and screened with an XRF instrument in accordance with the AMSAP (Tetra Tech 2020) to confirm the final clean depth for properties 3, 19, 22, 23, 24, 25, 51, and the Village of Lyons parkways. A total of 25 final confirmation samples were collected and delivered to Eurofins Environment Testing America in University Park,

Illinois for off-site laboratory analysis. Samples were analyzed for arsenic and lead by SW-846 Method 6010B. On-site XRF lead level screening results and laboratory analytical results for only Properties 19, 23, 24, and 25 were found to be above the EPA RML of 400 ppm for lead, requiring further excavation. Final confirmation samples were not collected at Properties 23 and 24 because obstructions such as bedrock and shallow tree roots were reached prior to 24 inches bgs. In these instances, it was not possible to collect a viable sample. Validated confirmation sample results are provided in Table 2 of Appendix C.

Confirmation sample on-site XRF analysis and off-site laboratory analytical results were found to coincide, as outlined in the FIELDS regression analysis. Subsequently, in-situ XRF screening was conducted at all other properties to confirm clean depth with a cleanup goal of 252 ppm in accordance with the EPA FIELDS regression analysis. XRF results are available upon request.

Elevation Surveys

START collected pre- and post-excavation elevation measurements for all excavated and restored yards in accordance with the AMSAP to establish the final excavation depth (Tetra Tech 2020). Elevation measurements were documented in digital survey forms. Final maximum excavation depths ranged from 2.00 to 33.36 inches bgs. The average excavation depth for residential properties was 14.11 inches bgs. Final excavation depths varied within each property due to shallow roots, tree roots, and shallow bedrock throughout the Site. As previously stated, in order to reach clean soil, overdigging was conducted in some yards where lead contamination was identified deeper than 24 inches bgs. The deepest excavation depth recorded for each removal area is provided in the table below. Additional depth measurements are available upon request.

Backfill and Site Restoration

Excavated areas were backfilled with certified clean soil. START conducted sampling of topsoil and backfill sources periodically throughout the removal to ensure the material was below the applicable IEPA Tiered Approach to Corrective Action Objectives (TACO) Tier I and EPA RML criteria for residential soil. Sampling was conducted approximately every 1,000 cubic yards of clean fill material that was used in accordance with the AMSAP (Tetra Tech 2020). During each source material sampling event, START collected a backfill sample, a topsoil sample, and one duplicate sample. Samples were delivered to Eurofins Environment Testing America in University Park, Illinois, for laboratory analysis. Samples were analyzed for VOCs by SW-846 Method 8260B; SVOCs by SW-846 Method 8270D; organochlorine pesticides by SW-846 Method 8081B; chlorinated herbicides by SW-846 Method 8151A; PCBs by SW-846 Method 8082A; and metals by SW-846 Methods 6010D and 7471B. No topsoil or backfill results

exceeded the criteria. Validated topsoil and backfill sample results are presented in Table 3 of Appendix C.

Backfill and topsoil were delivered to the staging area and stockpiled for use at residential properties as needed. Excavated areas were backfilled using an excavator and skid steer. The excavator and skid steer were also used to grade the backfill to the original elevation and slope. Final compaction was completed with a plate compactor. Properties were restored with sod, rock, and landscaping according to agreements with the property owners. EPA distributed sod maintenance fact sheets with the agreement that the informed property owners would perform the sod maintenance. Property owners agreed to accept gift cards to purchase and replace plants removed in the fall.

Excavated Property Summary

Property ID	Removal Location	Maximum Excavation Depth (inches)	Obstruction Encountered	Barrier Placed
TI-02	FY	10.44	NA	No
TI-03	BY	19.68	NA	No
	FY	17.16	NA	No
	GD	NA*	NA	No
	FY	30.24	Shallow tree roots encountered	No
TI-09	BY	13.56	Bedrock and shallow tree roots	No
TI-10	FY	27.96	Bedrock	No
TI-11	BY	13.56	Bedrock	No
	FY	27.12	Bedrock	No
TI-12	BY	16.56	Bedrock	No
	FY	18.00	Bedrock and shallow tree roots	No
	GD	10.68	Bedrock	No
TI-13	BY	28.68	Bedrock	No
	FY	24.00	Bedrock and shallow tree roots	No
TI-15	BY	9.96	Bedrock and shallow tree roots	No
	FY	24.72	Bedrock	No
TI-16	BY	15.48	Bedrock and shallow tree roots	No
	FY	22.20	Bedrock and shallow tree roots	No
TI-17	FY	12.96	Clay layer and shallow tree roots	No
TI-18	FY	16.56	Bedrock and underground utility	No
TI-19	BY	25.56	NA	No
	FY	20.40	Bedrock, underground utility, and shallow tree roots	No
	SY	16.56	Bedrock	Yes
TI-22	BY	9.96	NA	No
	FY	13.08	Bedrock	No

Property ID	Removal Location	Maximum Excavation Depth (inches)	Obstruction Encountered	Barrier Placed
TI-23	BY	16.08	Bedrock and underground utility	No
	FY	22.44	Bedrock and shallow tree roots	No
	SY	19.92	Bedrock	No
TI-24	BY	16.20	Bedrock	No
	FY	24.00	NA	No
TI-25	BY	24.00	NA	No
	FY	20.00	Bedrock	Yes
TI-26	FY	9.60	Bedrock	Yes
TI-27	BY	18.72	NA	No
	FY	14.88	Bedrock	No
TI-28	BY	16.32	Bedrock	Yes
	FY	26.04	Bedrock	No
TI-30	FY	23.88	Bedrock	No
TI-31	FY	21.96	Bedrock and shallow tree roots	No
TI-32	FY	16.32	Shallow tree roots	No
TI-35	PA	7.56	Bedrock and shallow tree roots	No
TI-36	FY	11.76	Bedrock	No
TI-37	BY	15.24	Bedrock	No
	GA	23.64	NA	No
TI-49	FY	13.32	NA	No
TI-51	FY	15.96	NA	No
	SY	8.88	NA	No
TI-53	FY	13.20	Bedrock and shallow tree roots	No
TI-54	PA	8.88	Bedrock and shallow tree roots	No
TI-60	BY	27.72	Bedrock	Yes
	FY	21.00	Bedrock	No
TI-61	FY	14.64	Bedrock	No
TI-63	BY	17.52	Bedrock	No
	FY	23.52	Bedrock	No
TI-64	FY	19.56	Bedrock	No
	SY	24.84	Bedrock	No
TI-65	BY	21.48	Bedrock	No
	FY	15.12	Bedrock	No
TI-66	BY	28.08	Bedrock	No
	FY	22.20	Bedrock	No
TI-67	GD	19.08	NA	No
TI-70	BY	20.76	Bedrock	No
	BGD	20.76	Bedrock	No
	FY	19.56	Bedrock and underground utility	No
TI-71	GA	20.00	Bedrock	No

Property ID	Removal Location	Maximum Excavation Depth (inches)	Obstruction Encountered	Barrier Placed
TI-73	BY	14.16	Bedrock	No
	FY	9.84	Shallow tree roots	No
TI-74	FY	21.48	NA	No
	SY	17.76	Bedrock and shallow tree roots	No
TI-75	BY	20.64	Bedrock	No
	GD2	19.56	Bedrock	No
TI-80	BY	9.72	Bedrock	No
	SY1	33.36	Bedrock	No
TI-82	BY	15.60	Bedrock	No
	FY	15.24	Underground utility	No
	GD	15.24	Underground utility	No
TI-84	BY	25.44	Bedrock	No
	FY	24.12	Bedrock	No
TI-85	BY	17.28	Bedrock	No
	SY	24.48	NA	Yes
TI-91	BY	19.68	Bedrock	Yes
	FY	24.24	NA	Yes
TI-92	GD	13.20	NA	No
TI-93	FY	12.96	Bedrock	No
	GD2	15.00	Bedrock	No
TI-94	FY	17.16	Bedrock and shallow tree roots	No
TI-95	BY	18.24	Bedrock	No
	GD1	18.24	Bedrock	No
	GD2	NA*	NA	No
	PA	4.92	NA	No
TI-96	GD3	11.40	Bedrock and shallow tree roots	No
TI-97	BY	11.52	Bedrock and shallow tree roots	No
	FY	18.48	Bedrock and shallow tree roots	No
TI-98	SY	11.52	Shallow tree roots	No
TI-99	BY	19.68	Bedrock and shallow tree roots	No
	FY	24.24	Bedrock	No
	GD	22.00	Bedrock	No
	PA	19.68	Bedrock and shallow tree roots	No
TI-100	BY	19.56	NA	No
	GD	14.00	NA	No
TI-104	FY	24.72	Bedrock	No
TI-106	GD	4.20	Shallow tree roots	No
TI-107	BY	21.36	Bedrock and shallow tree roots	No
	FY	25.80	Bedrock	No
	GD2	21.36	Bedrock and shallow tree roots	No

Property ID	Removal Location	Maximum Excavation Depth (inches)	Obstruction Encountered	Barrier Placed
TI-109	BY	11.88	Shallow tree roots	No
	FY	23.04	Bedrock	No
TI-110	BY	21.36	Bedrock and shallow tree roots	No
	FY	22.32	Shallow tree roots	No
	GD	22.32	Shallow tree roots	No
TI-111	BY	22.68	Bedrock and shallow tree roots	No
TI-115	BY	15.24	Bedrock and shallow tree roots	No
	GD	23.40	NA	No
	PA	15.24	Bedrock and shallow tree roots	No
TI-116	FY	19.32	Bedrock	No
TI-117	BY	17.76	NA	No
	GD3	22.32	Bedrock	No
TI-118	GD2	30.00	Shallow tree roots	No
TI-120	GD1	8.00	NA	No
	GD2	15.60	Bedrock	No
	PA1	15.60	Bedrock	No
	PA2	15.60	Bedrock	No
	BY	15.60	Bedrock	No
TI-121	BY	8.00	Shallow tree roots	No
	FY	20.00	NA	No
TI-122	PA	17.76	Bedrock	No
TI-123	BY	11.88	Bedrock	No
TI-125	FY	19.20	Bedrock and shallow tree roots	No
TI-127	FY	33.12	Bedrock and shallow tree roots	No
TI-128	FY	23.52	Bedrock and shallow tree roots	No
TI-130	FY	31.20	Bedrock	No
TI-131	BY	16.08	Bedrock	No
	GD3	6.00	Shallow tree roots	No
	GD5	18.00	NA	No
TI-134	FY	21.84	Bedrock, shallow tree roots, and asphalt	No
	GD	2.00	Shallow roots	No

* - Indicates the area was not removed due to property owner request

BY – Back Yard

FY – Front Yard

GD, GD#, GA – Garden

NA – Not applicable; indicates that clean material was reached

PA – Play Area

SY – Side Yard

START conducted oversight of removal activities. Photographic documentation is provided in Appendix B.

3.2 AIR MONITORING AND SAMPLING

START conducted perimeter and personnel air monitoring and sampling during removal activities as described in the AMSAP (Tetra Tech 2020).

3.2.1 Perimeter Air Monitoring and Sampling

Tetra Tech conducted perimeter air sampling for lead and real-time perimeter air monitoring for particulate material to measure exposure to workers and adjacent properties. Two air monitoring stations were deployed daily during excavation: one downwind of the ongoing excavation and one near the primary entrance to the residence or commercial building on the property. A third air monitoring station was deployed daily near the backfill soil and excavated material piles located in the staging area. Air monitoring was not conducted during rain events. Each air monitoring station consisted of a TSI DustTrak DRX 8533EP (DustTrak) and a GilAir5 air sampling pump.

DustTraks were deployed to measure particulate levels and were configured to analyze for fine particles (PM_{2.5}, or particles less than 2.5 micrometer [μm] in diameter) that are most likely to cause adverse health effects. DustTraks also monitored concentrations of particles with aerodynamic diameters of 1, 2.5, and 4 microns or less and total particulate matter. DustTraks were zero-calibrated daily. Equipment maintenance was performed onsite as needed. Data from the DustTraks was continuously transmitted wirelessly to an Environmental Response Team (ERT)-managed virtual machine running EPA's VIPER Survey Controller software to allow real-time monitoring of air monitoring results and provide a real-time alarm system. A 5-minute time-weighted average (TWA) for particulate matter that is 10 microns (PM₁₀), as measured by the DustTrak and calculated by EPA ERT through VIPER, was used to compare against the action levels to determine if dust was traveling off-site and if mitigation methods were required.

GilAir5 sampling pumps equipped with filter cassettes were deployed with each air monitoring station to collect samples that could be analyzed for lead and arsenic. Each sampling pump was calibrated using a BIOS DryCal Air Flow Calibrator to a flow rate of approximately 4 liters per minute prior to the sampling event, and the initial flow rates were recorded. At the end of the sampling period, the final flow rates were recorded to calculate the average flow rates during the sampling. The flow rate and total volume of air pumped through the filter cassette were in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling Method 7300 for lead and arsenic (NIOSH 2003). Samples were archived unless particulate levels at the associated air monitoring station exceeded action levels.

At the start of the 2020, 2021, and 2022 removal seasons, air samples collected during the first 10 days of representative field conditions (no rain or snow) were submitted to Eurofins Test America in Phoenix, Arizona, for analysis. A sample summary is presented in Table 4 of Appendix C. The samples collected after the first 10 days were only submitted for laboratory analysis if the daily TWA obtained from the Dust Trak units was above the site-specific action level of 2.5 milligrams per cubic meter (mg/m^3) for PM_{10} or smaller in diameter. All samples not submitted for laboratory analysis were cataloged for future analysis if requested. Sample results were compared to the site residential protection levels (RPL), 0.0012 mg/m^3 for lead and 0.00023 mg/m^3 for arsenic. Laboratory analytical results identified an RPL exceedance for lead and arsenic in the residential entry sample during removal activities at Property 63. Air monitoring was closely monitored following the exceedance; however, no other site-related exceedances occurred. Validated air sample results are presented in Table 5 of Appendix C.

Air monitoring results indicated that particulate TWA concentrations did not exceed the site action level of 2.5 mg/m^3 as outlined in the AMSAP (Tetra Tech 2020). Individual concentration readings briefly exceeded the action level of 2.5 mg/m^3 at Properties 134 and 127 when a Village of Lyons crew was maintaining a nearby tree using a chainsaw, creating sawdust; however, particulate concentrations were reduced immediately after the trimming was completed. An additional action level exceedance occurred at Property 131, which was suspected to have been caused by a large lawnmower cutting grass on a nearby property. These exceedances were deemed not site-related, and samples were not submitted for analysis.

3.2.2 Personnel Air Sampling

In accordance with the Occupational Safety and Health Administration (OSHA) regulations found in 29 *Code of Federal Regulations* (CFR) 1910.1025(d)(2) for lead, initial personnel air sampling was performed for employees who may have been exposed to airborne lead concentrations at or above the OSHA permissible exposure limit (PEL) of 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) over an 8-hour shift. Employee exposure is characterized regardless of the respiratory protection worn. Lead was detected in

the initial site assessment at concentrations above EPA RMLs. In response to the potential hazard and to comply with the OSHA regulation, personnel air sampling was conducted on workers with the highest potential exposure to lead.

Personnel air monitoring was conducted for lead by attaching a GilAir5 air sampling pump onto two ERRS contractors with the highest potential for encountering this hazardous substance (i.e., laborer hand digging soil and excavator operator). Site activities during the sampling period consisted of excavating lead-contaminated soil. Personnel air samples were collected using the same methodology for perimeter air samples as described in Section 3.2.1. All samples were submitted for laboratory analysis by the ERRS contractor.

3.3 DEMOBILIZATION

Upon completing removal activities in September 2022, an excavator was used to remove remaining clean backfill and topsoil and the stockpile of remaining excavated material from the staging area. Approximately three inches of residual contaminated material was scraped from the contaminated material stockpile area. Trucks hauled off remaining stockpiles for disposal. Confirmation sampling was conducted within the staging area to ensure contaminated site material was removed.

One soil sample and one duplicate were collected where the contaminated material stockpile was previously staged. Samples were collected in the previously sampled grid, SA01. Samples were sent to Eurofins Environment Testing America in University Park, Illinois, and analyzed for total lead. Staging area sample locations are provided on Figure 3 of Appendix A.

The EPA removal branch will refer the Site to the EPA remedial program to address remaining contamination at properties where visible barriers were placed.

4.0 SUMMARY OF REMOVAL ACTIVITIES

The following is a summary of removal action activities completed from September 22, 2020, through September 1, 2022:

- All immediate threats to human health and the environment were removed or mitigated.
- All waste was disposed of at Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-approved disposal facilities per EPA's Off-site rule (40 CFR Part 300.440).
- 11,317.75 tons of non-hazardous soil and debris were disposed of.
- Air monitoring indicated no site-related sustained air quality concentrations above action levels during the removal action.
- Orange snow fence was laid over portions of the excavated areas to denote remaining hazardous lead contamination below 24 inches at Properties 22, 25, 26, 28, 60, 85, and 91.
- After field crews demobilized, lead concentrations in soil at residential properties and the Village of Lyons parkways were below the cleanup level of 252 ppm, except in areas where further excavation was prevented by tree roots, bedrock, building foundations, or underground utilities.
- Sites were restored to conditions specified in agreements with property owners.
- Residents and partner agencies were notified and consulted throughout the removal activities.

5.0 REFERENCES

Illinois Environmental Protection Agency (IEPA). 2017. Referral for Taracorp Industries LPC# 0311740007 – Cook County. From Bruce Everetts, Project Manager, Office of Site Evaluation. To Mike Ribordy, Chief, Emergency Response Branch Section 2.

National Institute for Occupational Safety and Health (NIOSH). 2003. Elements by ICP (Hot Block/HCl/HNO₃Digestion) Method: 7303, Issue 1. March 15. Accessed On-line: <http://www.cdc.gov/niosh/docs/2003-154/pdfs/7303.pdf> Accessed: December 15, 2022.

Occupational Safety and Health Administration (OSHA). 2014. 29 CFR 1910.1025, Lead. Washington, DC. 20210. Accessed On-Line: https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10030 Accessed: December 14, 2017.

Tetra Tech, Inc. (Tetra Tech) 2020. “Air Monitoring and Sampling Analysis Plan – Revision 1 Taracorp Industries Removal Site.” Prepared for EPA under Contract No. 68-HE-0519-D0005. September 18.

Tetra Tech, Inc. (Tetra Tech) 2021. “Emergency Contingency Plan – Revision 3 Taracorp Industries Removal Site.” Prepared for EPA under Contract No. 68-HE-0519-D0005. May 6.

Tetra Tech. 2023. “Final Removal Assessment Report – Revision 1 Taracorp Industries Removal Site.” Prepared for EPA under Contract No. 68-HE-0519-D0005. March 3.

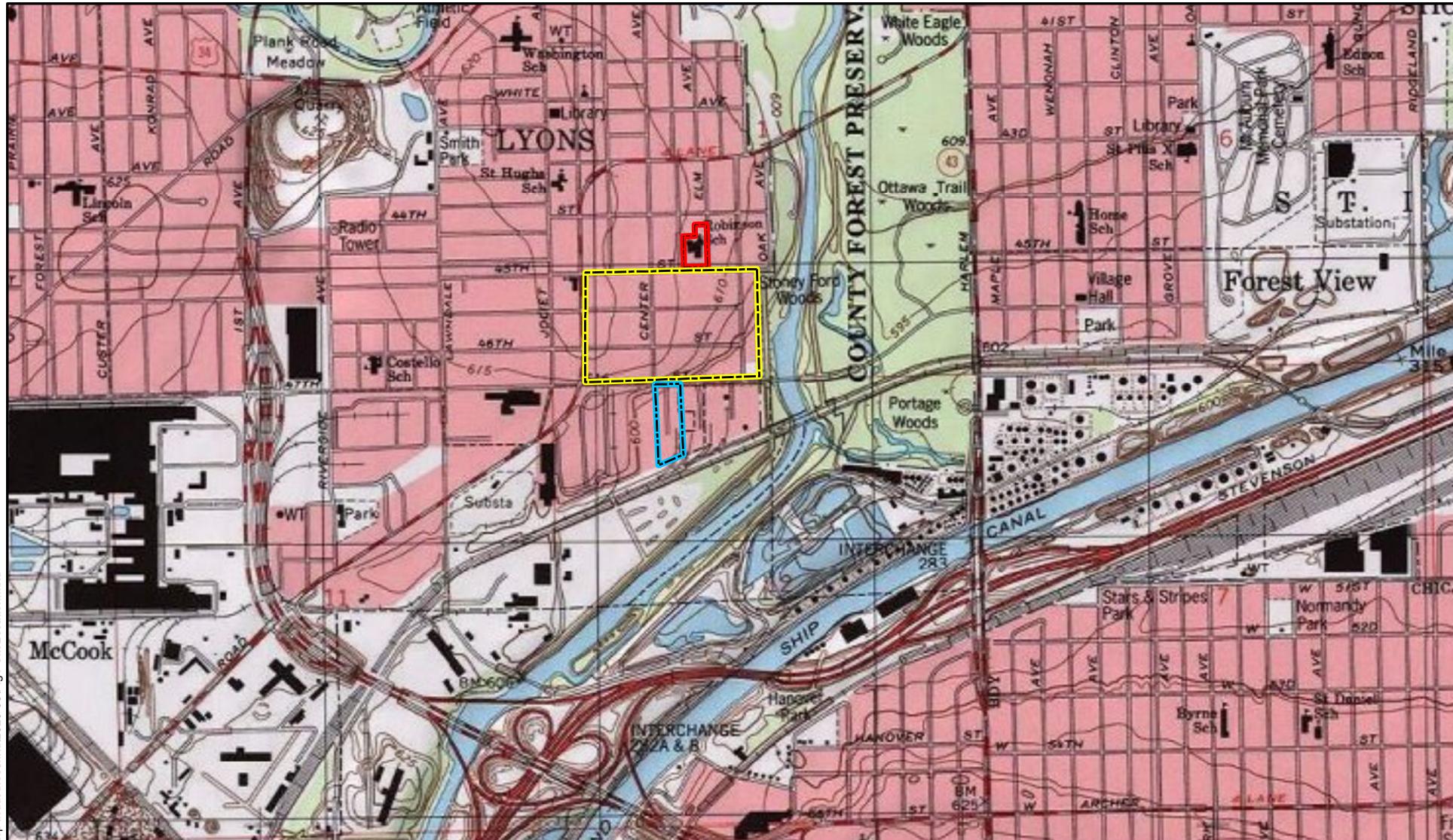
U. S. Environmental Protection Agency (EPA). 2020. Memorandum Regarding Request for Approval and Funding for a Time-Critical Removal Action and Exemption from the \$2 Million and 12-month Statutory Limits at the Taracorp Industries Soils Site, Lyons, Cook County, Illinois (Site ID # C5HS). July 15, 2020. From Craig Thomas, On-Scene Coordinator Emergency Response Branch 2, Section 3 to Douglas Ballotti, Director Superfund & Emergency Management Division.

APPENDIX A
SITE FIGURES

1 – SITE LOCATION MAP

2 – SITE LAYOUT MAP

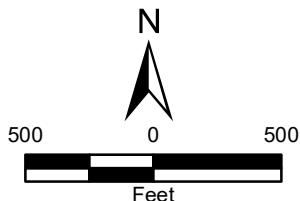
3 – STAGING AREA SOIL SAMPLE MAP





- Legend**
- [Blue Box] Former Taracorp Facility
 - [Yellow Dashed Box] Residential Removal Area Boundary
 - [Green Box] Staging Area and Command Post
 - [Red Box] Robinson Elementary School

Source: Bing Maps Hybrid 2013



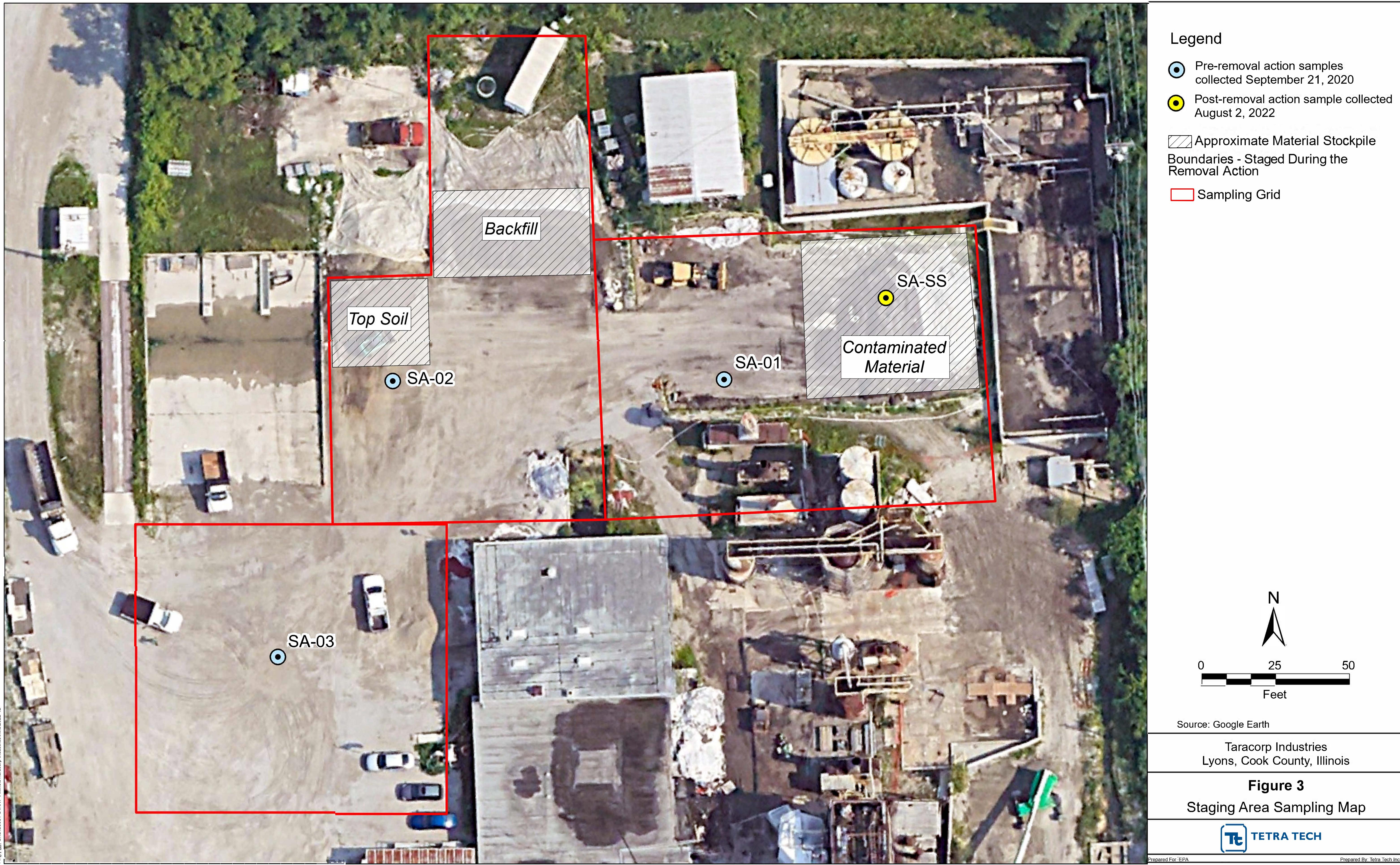
Taracorp Industries
Lyons, Cook County, Illinois

Figure 2
Site Layout Map



Prepared For: US EPA

Prepared By: Tetra Tech, Inc.



APPENDIX B
PHOTOGRAPHIC DOCUMENTATION



Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Photographic Documentation

Prepared by: START
TO-TOLIN: F0032-0001BH103
Dates: September 2020 – September 2022

Photograph No. 1

Property: 100

Date: 6/23/2022

Description: Property 100 back yard during removal.



Photograph No. 2

Property: 66

Date: 4/28/2021

Description: Property 66 front yard during removal.





Photographic Documentation

Prepared by: START

TO-TOLIN: F0032-0001BH103

Dates: September 2020 – September 2022

Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Photograph No. 3

Property: 35

Date: 7/7/2021

Description: Property 35 play area after restoration.



Photograph No. 4

Property: 49

Date: 8/3/2021

Description: Property 49 front yard prior to removal.





Photographic Documentation

Prepared by: START

TO-TOLIN: F0032-0001BH103

Dates: September 2020 – September 2022

Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Photograph No. 5

Property: 3

Date: 5/18/2021

Description: Property 3 back yard during removal.



Photograph No. 6

Property: 3

Date: 8/3/2021

Description: Property 3 back yard after restoration.





Photographic Documentation

Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Prepared by: START
TO-TOLIN: F0032-0001BH103
Dates: September 2020 – September 2022

Photograph No. 7

Property: 22

Date: 5/18/2021

Description: Property 22 back yard prior to removal.



Photograph No. 8

Property: 22

Date: 5/27/2021

Description: Property 22 Village of Lyons parkway during removal.





Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Photographic Documentation

Prepared by: START
TO-TOLIN: F0032-0001BH103
Dates: September 2020 – September 2022

Photograph No. 9

Property: 22

Date: 7/7/2021

Description: Property 22 front yard after restoration.



Photograph No. 10

Property: 11

Date: 7/19/2021

Description: Property 11 front yard during backfill.





Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Photographic Documentation

Prepared by: START
TO-TOLIN: F0032-0001BH103
Dates: September 2020 – September 2022

Photograph No. 11

Property: 95

Date: 7/20/2021

Description: Property 95 back yard and play area prior to removal.



Photograph No. 12

Property: 73

Date: 9/30/2021

Description: Property 73 back yard after restoration.





Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Photographic Documentation

Prepared by: START
TO-TOLIN: F0032-0001BH103
Dates: September 2020 – September 2022

Photograph No. 13

Property: 9

Date: 8/16/2021

Description: Property 9 back yard after removal, prior to backfill.



Photograph No. 14

Property: 92

Date: 9/30/2021

Description: Property 92 garden after restoration.





Photographic Documentation

Client: US Environmental Protection Agency
Site Name: Taracorp Industries RV
Location: Lyons, Cook County, Illinois

Prepared by: START
TO-TOLIN: F0032-0001BH103
Dates: September 2020 – September 2022

Photograph No. 15

Property: 9

Date: 8/16/2021

Description: Property 9 back yard during removal.



Photograph No. 16

Property: 84

Date: 7/7/2021

Description: Property 84 back yard during removal.



APPENDIX C

TABLES

1 – STAGING AREA SOIL SAMPLE RESULTS

2 – CONFIRMATION SAMPLE RESULTS

3 – BACKFILL AND TOPSOIL STOCKPILE SAMPLE RESULTS

4 – AIR SAMPLE SUMMARY

5 – AIR SAMPLE RESULTS

Table 1
Staging Area Soil Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Analyte	CAS	EPA RML for Industrial Soil	Sample ID:	TI-SA-01-0003-2020921	TI-SA-02-0003-202091
			Sample Date:	9/21/2022	9/21/2022
			Sample Type:	Field Sample	Field Sample
Metals					
Aluminum	7429-90-5	3400000	mg/kg	2200	3300
Antimony	7440-36-0	1400	mg/kg	2.9	6.3
Arsenic	7440-38-2	300	mg/kg	2.7	3.7
Barium	7440-39-3	650000	mg/kg	38	60
Beryllium	7440-41-7	6900	mg/kg	0.25 J	0.38 J
Chromium	7440-47-3	5300000	mg/kg	11	12
Cobalt	7440-48-4	1000	mg/kg	2.5	3
Copper	7440-50-8	140000	mg/kg	26	23
Iron	7439-89-6	2500000	mg/kg	7300	8000
Lead	7439-92-1	800	mg/kg	60	81
Manganese	7439-96-5	77000	mg/kg	170	200
Nickel	7440-02-0	67000	mg/kg	11	12
Selenium	7782-49-2	18000	mg/kg	1 U	1.1 U
Silver	7440-22-4	18000	mg/kg	0.5 U	0.57 U
Thallium	7440-28-0	35	mg/kg	1 U	1.1 U
Vanadium	7440-62-2	17000	mg/kg	6.8	7.9
Zinc	7440-66-6	1100000	mg/kg	190	150
Mercury					
Mercury	7439-97-6	140	mg/kg	0.051	0.079
VOCs					
1,1,1-Trichloroethane	71-55-6	110000	mg/kg	0.0022 U	0.0023 U
1,1,2,2-Tetrachloroethane	79-34-5	270	mg/kg	0.0022 U	0.0023 U
1,1,2-Trichloroethane	79-00-5	19	mg/kg	0.0022 U	0.0023 U
1,1-Dichloroethane	75-34-3	1600	mg/kg	0.0022 U	0.0023 U
1,1-Dichloroethene	75-35-4	3000	mg/kg	0.0022 U	0.0023 U
1,2,4-Trichlorobenzene	120-82-1	770	mg/kg	0.0022 U	0.0023 U
1,2-Dibromo-3-chloropropane	96-12-8	6.4	mg/kg	0.0055 U	0.0056 U
1,2-Dibromoethane	106-93-4	16	mg/kg	0.0022 U	0.0023 U
1,2-Dichlorobenzene	95-50-1	28000	mg/kg	0.0022 U	0.0023 U
1,2-Dichloroethane	107-06-2	200	mg/kg	0.0055 U	0.0056 U
1,2-Dichloropropane	78-87-5	200	mg/kg	0.0022 U	0.0023 U
1,4-Dichlorobenzene	106-46-7	1100	mg/kg	0.0022 U	0.0023 U
2-Butanone	78-93-3	580000	mg/kg	0.0055 U	0.0056 U
2-Hexanone	591-78-6	4000	mg/kg	0.0055 U	0.0056 U
4-Methyl-2-pentanone	108-10-1	420000	mg/kg	0.0055 U	0.0056 U
Acetone	67-64-1	3200000	mg/kg	0.022 U	0.023 U
Benzene	71-43-2	510	mg/kg	0.0022 U	0.0023 U
Bromodichloromethane	75-27-4	130	mg/kg	0.0022 U	0.0023 U
Bromoform	75-25-2	8600	mg/kg	0.0022 U	0.0023 U
Bromomethane	74-83-9	90	mg/kg	0.0055 UJ	0.0056 UJ
Carbon disulfide	75-15-0	10000	mg/kg	0.0055 U	0.0056 U
Carbon tetrachloride	56-23-5	290	mg/kg	0.0022 U	0.0023 U
Chlorobenzene	108-90-7	4000	mg/kg	0.0022 U	0.0023 U
Chloroethane	75-00-3	68000	mg/kg	0.0055 U	0.0056 U
Chloroform	67-66-3	140	mg/kg	0.0022 U	0.0023 U
Chloromethane	74-87-3	1400	mg/kg	0.0055 U	0.0056 U
cis-1,2-Dichloroethene	156-59-2	1100	mg/kg	0.0022 U	0.0023 U
Cyclohexane	110-82-7	82000	mg/kg	0.0022 U	0.0023 U
Dibromochloromethane	124-48-1	3900	mg/kg	0.0022 U	0.0023 U
Dichlorodifluoromethane	75-71-8	1100	mg/kg	0.0055 U	0.0056 U
Ethylbenzene	100-41-4	2500	mg/kg	0.0022 U	0.0023 U

Table 1
 Staging Area Soil Sample Results
 Taracorp Industries Removal Site
 Lyons, Cook County, Illinois

Analyte	CAS	EPA RML for Industrial Soil	Sample ID:	TI-SA-01-0003-2020921	TI-SA-02-0003-202091
			Sample Date:	9/21/2022	9/21/2022
			Sample Type:	Field Sample	Field Sample
Isopropylbenzene	98-82-8	30000	mg/kg	0.0022 U	0.0023 U
Methyl acetate	79-20-9	3500000	mg/kg	0.028 U	0.028 U
Methyl tert-butyl ether	1634-04-4	21000	mg/kg	0.0022 U	0.0023 U
Methylene chloride	75-09-2	9500	mg/kg	0.0055 U	0.0056 U
Styrene	100-42-5	100000	mg/kg	0.0022 U	0.0023 U
Tetrachloroethene	127-18-4	1200	mg/kg	0.0022 U	0.0023 U
Toluene	108-88-3	140000	mg/kg	0.0022 U	0.0023 U
trans-1,2-Dichloroethene	156-60-5	910	mg/kg	0.0022 U	0.0023 U
Trichloroethene	79-01-6	56	mg/kg	0.0022 U	0.0023 U
Trichlorofluoromethane	75-69-4	1100000	mg/kg	0.0055 U	0.0056 U
Vinyl chloride	75-01-4	170	mg/kg	0.0022 U	0.0023 U
112Trichloro122trifluoroethane	76-13-1	84000	mg/kg	0.0022 U	0.0023 U
SVOCs					
2,4,5-Trichlorophenol	95-95-4	250000	mg/kg	0.36 UJ	0.41 UJ
2,4,6-Trichlorophenol	88-06-2	2500	mg/kg	0.36 UJ	0.41 UJ
2,4-Dichlorophenol	120-83-2	7400	mg/kg	0.36 U	0.41 U
2,4-Dimethylphenol	105-67-9	49000	mg/kg	0.36 U	0.41 U
2,4-Dinitrophenol	51-28-5	4900	mg/kg	0.74 UJ	0.83 UJ
2,4-Dinitrotoluene	121-14-2	740	mg/kg	0.18 U	0.21 U
2,6-Dinitrotoluene	606-20-2	150	mg/kg	0.18 U	0.21 U
2-Chloronaphthalene	91-58-7	180000	mg/kg	0.18 U	0.21 U
2-Chlorophenol	95-57-8	18000	mg/kg	0.18 U	0.21 U
2-Methylnaphthalene	91-57-6	9000	mg/kg	0.019 J	0.012 J
2-Methylphenol	95-48-7	120000	mg/kg	0.18 U	0.21 U
2-Nitroaniline	88-74-4	24000	mg/kg	0.18 U	0.21 U
4,6-Dinitro-2-methylphenol	534-52-1	200	mg/kg	0.74 U	0.83 U
4-Chloro-3-methylphenol	59-50-7	250000	mg/kg	0.36 UJ	0.41 UJ
4-Chloroaniline	106-47-8	1100	mg/kg	0.74 U	0.83 U
4-Nitroaniline	100-01-6	9800	mg/kg	0.36 U	0.41 U
Acenaphthene	83-32-9	140000	mg/kg	0.0073 J	0.041 U
Acetophenone	98-86-2	350000	mg/kg	0.36 U	0.41 U
Anthracene	120-12-7	680000	mg/kg	0.048 J	0.042 J
Atrazine	1912-24-9	1000	mg/kg	0.36 UJ	0.41 UJ
Benzaldehyde	100-52-7	82000	mg/kg	1.5 U	1.7 U
Benzo(a)anthracene	56-55-3	2100	mg/kg	0.12	0.045
Benzo(a)pyrene	50-32-8	210	mg/kg	0.17 J+	0.064 J
Benzo(b)fluoranthene	205-99-2	2100	mg/kg	0.26 J+	0.1 J
Benzo(k)fluoranthene	207-08-9	21000	mg/kg	0.19 J+	0.047
Bis(2-chloroethoxy)methane	111-91-1	7400	mg/kg	0.18 U	0.21 U
Bis(2-chloroethyl)ether	111-44-4	100	mg/kg	0.18 U	0.21 U
Bis(2-chloroisopropyl)ether	108-60-1	140000	mg/kg	0.18 U	0.21 U
Bis(2-ethylhexyl)phthalate	117-81-7	16000	mg/kg	0.076 J	0.21 UJ
Caprolactam	105-60-2	1200000	mg/kg	0.36 U	0.41 U
Chrysene	218-01-9	210000	mg/kg	0.19	0.068
Dibeno(a,h)anthracene	53-70-3	210	mg/kg	0.028 J+	0.012 J
Dibenzofuran	132-64-9	3500	mg/kg	0.18 U	0.21 U
Fluoranthene	206-44-0	90000	mg/kg	0.27	0.11
Fluorene	86-73-7	90000	mg/kg	0.035 J	0.035 J
Hexachlorobenzene	118-74-1	35	mg/kg	0.074 U	0.083 U
Hexachlorobutadiene	87-68-3	530	mg/kg	0.18 U	0.21 U
Hexachlorocyclopentadiene	77-47-4	22	mg/kg	0.74 U	0.83 U
Hexachloroethane	67-72-1	800	mg/kg	0.18 U	0.21 U

Table 1
Staging Area Soil Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Analyte	CAS	EPA RML for Industrial Soil	Sample ID:	TI-SA-01-0003-2020921	TI-SA-02-0003-202091
			Sample Date:	9/21/2022	9/21/2022
			Sample Type:	Field Sample	Field Sample
Indeno(1,2,3-cd)pyrene	193-39-5	2100	mg/kg	0.088 J+	0.038 J
Isophorone	78-59-1	240000	mg/kg	0.18 U	0.21 U
Naphthalene	91-20-3	860	mg/kg	0.0068 J	0.041 U
Nitrobenzene	98-95-3	2200	mg/kg	0.036 U	0.041 U
Pentachlorophenol	87-86-5	400	mg/kg	0.74 U	0.83 U
Phenol	108-95-2	740000	mg/kg	0.18 U	0.21 U
Pyrene	129-00-0	68000	mg/kg	0.24	0.087
1,1'-Biphenyl	92-52-4	600	mg/kg	0.18 U	0.21 U
3,3'-Dichlorobenzidine	91-94-1	510	mg/kg	0.18 UJ	0.21 UJ
Butylbenzylphthalate	85-68-7	120000	mg/kg	0.18 UJ	0.21 UJ
Diethylphthalate	84-66-2	2000000	mg/kg	0.18 U	0.21 U
Di-n-butylphthalate	84-74-2	250000	mg/kg	0.18 U	0.21 U
Di-n-octylphthalate	117-84-0	25000	mg/kg	0.18 U	0.21 U
N-Nitroso-di-n-propylamine	621-64-7	33	mg/kg	0.074 U	0.083 U
Pesticides/Herbicides					
Aldrin	309-00-2	18	mg/kg	0.0019 U	0.0021 U
alpha-BHC	319-84-6	36	mg/kg	0.0019 U	0.0021 U
alpha-Chlordane	5103-71-9	1500	mg/kg	0.0019 U	0.0021 U
beta-BHC	319-85-7	130	mg/kg	0.0019 U	0.0021 U
Dieldrin	60-57-1	14	mg/kg	0.0041	0.0036
Endosulfan sulfate	1031-07-8	15000	mg/kg	0.0019 U	0.0021 U
Endrin	72-20-8	740	mg/kg	0.0019 U	0.0021 U
gamma-Chlordane	5103-74-2	1500	mg/kg	0.0019 U	0.0021 U
Heptachlor	76-44-8	63	mg/kg	0.0019 U	0.0021 U
Heptachlor epoxide	1024-57-3	33	mg/kg	0.0019 U	0.0021 U
Methoxychlor	72-43-5	12000	mg/kg	0.0092 UJ	0.01 UJ
Toxaphene	8001-35-2	210	mg/kg	0.018 U	0.02 U
4,4'-DDD	72-54-8	960	mg/kg	0.0019 U	0.0021 U
4,4'-DDE	72-55-9	930	mg/kg	0.0019 U	0.0021 U
4,4'-DDT	50-29-3	850	mg/kg	0.0019 U	0.0021 U
Lindane	58-89-9	30	mg/kg	0.0019 U	0.0021 U
2,4,5-T	93-76-5	25000	mg/kg	0.37 U	0.41 U
2,4-D	94-75-7	29000	mg/kg	0.37 U	0.41 U
2,4-DB	94-82-6	NE	mg/kg	0.37 U	0.41 U
Dicamba	1918-00-9	74000	mg/kg	0.37 U	0.41 U
Dichlorprop	120-36-5	NE	mg/kg	0.37 U	0.41 U
Silvex (2,4,5-TP)	93-72-1	20000	mg/kg	0.37 U	0.41 U
PCBs					
Aroclor-1016	12674-11-2	150	mg/kg	0.018 U	0.02 U
Aroclor-1221	11104-28-2	83	mg/kg	0.018 U	0.02 U
Aroclor-1232	11141-16-5	72	mg/kg	0.018 U	0.02 U
Aroclor-1242	53469-21-9	95	mg/kg	0.018 U	0.02 U
Aroclor-1248	12672-29-6	94	mg/kg	0.018 U	0.02 U
Aroclor-1254	11097-69-1	44	mg/kg	0.018 U	0.02 U
Aroclor-1260	11096-82-5	99	mg/kg	0.065	0.11
Aroclor-1262	37324-23-5	NE	mg/kg	0.018 U	0.02 U
Aroclor-1268	11100-14-4	NE	mg/kg	0.018 U	0.02 U

See notes on last page.

Table 1
 Staging Area Soil Sample Results
 Taracorp Industries Removal Site
 Lyons, Cook County, Illinois

Analyte	CAS		TI-SA-03-0003-2020921	TI-SA-DUP-0003-2020921	
		EPA RML for Industrial Soil	9/21/2022	9/21/2022	
		Field Sample	Duplicate Sample		
Metals					
Aluminum	7429-90-5	3400000	5500	6700	
Antimony	7440-36-0	1400	1.7 J	1.6 J-	
Arsenic	7440-38-2	300	7.8	7.8 J	
Barium	7440-39-3	650000	43	52	
Beryllium	7440-41-7	6900	0.39	0.44 J	
Chromium	7440-47-3	5300000	10	12 J	
Cobalt	7440-48-4	1000	5.8	6.6 J	
Copper	7440-50-8	140000	16	17 J	
Iron	7439-89-6	2500000	11000	11000 J	
Lead	7439-92-1	800	69	79 J	
Manganese	7439-96-5	77000	500	400	
Nickel	7440-02-0	67000	12	13 J	
Selenium	7782-49-2	18000	0.9 U	1.1 U	
Silver	7440-22-4	18000	0.45 U	0.53 U	
Thallium	7440-28-0	35	0.9 U	1.1 U	
Vanadium	7440-62-2	17000	13	15 J	
Zinc	7440-66-6	1100000	65	66 J	
Mercury					
Mercury	7439-97-6	140	0.033	0.035	
VOCs					
1,1,1-Trichloroethane	71-55-6	110000	0.0022 U	0.0024 U	
1,1,2,2-Tetrachloroethane	79-34-5	270	0.0022 U	0.0024 UJ	
1,1,2-Trichloroethane	79-00-5	19	0.0022 U	0.0024 UJ	
1,1-Dichloroethane	75-34-3	1600	0.0022 U	0.0024 U	
1,1-Dichloroethene	75-35-4	3000	0.0022 U	0.0024 U	
1,2,4-Trichlorobenzene	120-82-1	770	0.0022 U	0.0024 UJ	
1,2-Dibromo-3-chloropropane	96-12-8	6.4	0.0056 U	0.0059 U	
1,2-Dibromoethane	106-93-4	16	0.0022 U	0.0024 UJ	
1,2-Dichlorobenzene	95-50-1	28000	0.0022 U	0.0024 UJ	
1,2-Dichloroethane	107-06-2	200	0.0056 U	0.0059 U	
1,2-Dichloropropane	78-87-5	200	0.0022 U	0.0024 UJ	
1,4-Dichlorobenzene	106-46-7	1100	0.0022 U	0.0024 UJ	
2-Butanone	78-93-3	580000	0.0056 U	0.0059 U	
2-Hexanone	591-78-6	4000	0.0056 U	0.0059 U	
4-Methyl-2-pentanone	108-10-1	420000	0.0056 U	0.0059 U	
Acetone	67-64-1	3200000	0.022 U	0.024 U	
Benzene	71-43-2	510	0.0022 U	0.0024 U	
Bromodichloromethane	75-27-4	130	0.0022 U	0.0024 U	
Bromoform	75-25-2	8600	0.0022 U	0.0024 UJ	
Bromomethane	74-83-9	90	0.0056 UJ	0.0059 U	
Carbon disulfide	75-15-0	10000	0.0056 U	0.0059 U	
Carbon tetrachloride	56-23-5	290	0.0022 U	0.0024 U	
Chlorobenzene	108-90-7	4000	0.0022 U	0.0024 UJ	
Chloroethane	75-00-3	68000	0.0056 U	0.0059 U	
Chloroform	67-66-3	140	0.0022 U	0.0024 U	
Chloromethane	74-87-3	1400	0.0056 U	0.0059 U	
cis-1,2-Dichloroethene	156-59-2	1100	0.0022 U	0.0024 U	
Cyclohexane	110-82-7	82000	0.0022 U	0.0024 U	
Dibromochloromethane	124-48-1	3900	0.0022 U	0.0024 UJ	
Dichlorodifluoromethane	75-71-8	1100	0.0056 U	0.0059 U	
Ethylbenzene	100-41-4	2500	0.0022 U	0.0024 UJ	

Table 1
 Staging Area Soil Sample Results
 Taracorp Industries Removal Site
 Lyons, Cook County, Illinois

Analyte	CAS	EPA RML for Industrial Soil	TI-SA-03-0003-2020921	TI-SA-DUP-0003-2020921
			9/21/2022	9/21/2022
Isopropylbenzene	98-82-8	30000	0.0022 U	0.0024 UJ
Methyl acetate	79-20-9	3500000	0.028 U	0.03 UJ
Methyl tert-butyl ether	1634-04-4	21000	0.0022 U	0.0024 U
Methylene chloride	75-09-2	9500	0.0056 U	0.0059 U
Styrene	100-42-5	100000	0.0022 U	0.0024 UJ
Tetrachloroethene	127-18-4	1200	0.0022 U	0.0024 UJ
Toluene	108-88-3	140000	0.0022 U	0.0024 UJ
trans-1,2-Dichloroethene	156-60-5	910	0.0022 U	0.0024 U
Trichloroethene	79-01-6	56	0.0022 U	0.0024 UJ
Trichlorofluoromethane	75-69-4	1100000	0.0056 U	0.0059 U
Vinyl chloride	75-01-4	170	0.0022 U	0.0024 U
112Trichloro122trifluoroethane	76-13-1	84000	0.0022 U	0.0024 U
SVOCs				
2,4,5-Trichlorophenol	95-95-4	250000	0.35 UJ	0.34 UJ
2,4,6-Trichlorophenol	88-06-2	2500	0.35 UJ	0.34 UJ
2,4-Dichlorophenol	120-83-2	7400	0.35 U	0.34 U
2,4-Dimethylphenol	105-67-9	49000	0.35 U	0.34 U
2,4-Dinitrophenol	51-28-5	4900	0.71 UJ	0.69 UJ
2,4-Dinitrotoluene	121-14-2	740	0.18 U	0.17 U
2,6-Dinitrotoluene	606-20-2	150	0.18 U	0.17 U
2-Chloronaphthalene	91-58-7	180000	0.18 U	0.17 U
2-Chlorophenol	95-57-8	18000	0.18 U	0.17 U
2-Methylnaphthalene	91-57-6	9000	0.014 J	0.011 J
2-Methylphenol	95-48-7	120000	0.18 U	0.17 U
2-Nitroaniline	88-74-4	24000	0.18 U	0.17 UJ
4,6-Dinitro-2-methylphenol	534-52-1	200	0.71 U	0.69 U
4-Chloro-3-methylphenol	59-50-7	250000	0.35 UJ	0.34 UJ
4-Chloroaniline	106-47-8	1100	0.71 U	0.69 U
4-Nitroaniline	100-01-6	9800	0.35 U	0.34 UJ
Acenaphthene	83-32-9	140000	0.0081 J	0.034 U
Acetophenone	98-86-2	350000	0.35 U	0.34 U
Anthracene	120-12-7	680000	0.044 J	0.038 J-
Atrazine	1912-24-9	1000	0.35 UJ	0.34 UJ
Benzaldehyde	100-52-7	82000	1.4 U	1.4 U
Benzo(a)anthracene	56-55-3	2100	0.098	0.06
Benzo(a)pyrene	50-32-8	210	0.16 J	0.095 J
Benzo(b)fluoranthene	205-99-2	2100	0.15 J	0.093 J
Benzo(k)fluoranthene	207-08-9	21000	0.19	0.13 J+
Bis(2-chloroethoxy)methane	111-91-1	7400	0.18 U	0.17 U
Bis(2-chloroethyl)ether	111-44-4	100	0.18 U	0.17 U
Bis(2-chloroisopropyl)ether	108-60-1	140000	0.18 U	0.17 U
Bis(2-ethylhexyl)phthalate	117-81-7	16000	0.18 UJ	0.17 UJ
Caprolactam	105-60-2	1200000	0.35 U	0.34 U
Chrysene	218-01-9	210000	0.16	0.1
Dibenzo(a,h)anthracene	53-70-3	210	0.016 J	0.012 J-
Dibenzofuran	132-64-9	3500	0.18 U	0.17 U
Fluoranthene	206-44-0	90000	0.23	0.15
Fluorene	86-73-7	90000	0.034 J	0.031 J
Hexachlorobenzene	118-74-1	35	0.071 U	0.069 U
Hexachlorobutadiene	87-68-3	530	0.18 U	0.17 U
Hexachlorocyclopentadiene	77-47-4	22	0.71 U	0.69 U
Hexachloroethane	67-72-1	800	0.18 U	0.17 UJ

Table 1
 Staging Area Soil Sample Results
 Taracorp Industries Removal Site
 Lyons, Cook County, Illinois

Analyte	CAS	EPA RML for Industrial Soil	TI-SA-03-0003-2020921	TI-SA-DUP-0003-2020921
			9/21/2022	9/21/2022
Indeno(1,2,3-cd)pyrene	193-39-5	2100	0.067	0.046 J-
Isophorone	78-59-1	240000	0.18 U	0.17 U
Naphthalene	91-20-3	860	0.0065 J	0.034 U
Nitrobenzene	98-95-3	2200	0.035 U	0.034 U
Pentachlorophenol	87-86-5	400	0.71 U	0.69 U
Phenol	108-95-2	740000	0.18 U	0.17 U
Pyrene	129-00-0	68000	0.19	0.12
1,1'-Biphenyl	92-52-4	600	0.18 U	0.17 U
3,3'-Dichlorobenzidine	91-94-1	510	0.18 UJ	0.17 UJ
Butylbenzylphthalate	85-68-7	120000	0.18 UJ	0.17 UJ
Diethylphthalate	84-66-2	2000000	0.18 U	0.17 U
Di-n-butylphthalate	84-74-2	250000	0.18 U	0.17 UJ
Di-n-octylphthalate	117-84-0	25000	0.18 U	0.17 UJ
N-Nitroso-di-n-propylamine	621-64-7	33	0.071 U	0.069 U
Pesticides/Herbicides				
Aldrin	309-00-2	18	0.0018 U	0.0018 U
alpha-BHC	319-84-6	36	0.0018 U	0.0018 U
alpha-Chlordane	5103-71-9	1500	0.0018 U	0.0018 U
beta-BHC	319-85-7	130	0.0018 U	0.0018 U
Dieldrin	60-57-1	14	0.007	0.0066
Endosulfan sulfate	1031-07-8	15000	0.0018 U	0.0018 U
Endrin	72-20-8	740	0.0018 U	0.0018 U
gamma-Chlordane	5103-74-2	1500	0.0018 U	0.0018 U
Heptachlor	76-44-8	63	0.0018 U	0.0018 U
Heptachlor epoxide	1024-57-3	33	0.0018 U	0.0018 U
Methoxychlor	72-43-5	12000	0.0088 UJ	0.0088 UJ
Toxaphene	8001-35-2	210	0.018 U	0.018 U
4,4'-DDD	72-54-8	960	0.0018 U	0.0018 U
4,4'-DDE	72-55-9	930	0.0061	0.0063
4,4'-DDT	50-29-3	850	0.0018 U	0.0018 U
Lindane	58-89-9	30	0.0018 U	0.0018 U
2,4,5-T	93-76-5	25000	0.35 U	0.35 U
2,4-D	94-75-7	29000	0.35 U	0.35 U
2,4-DB	94-82-6	NE	0.35 U	0.35 U
Dicamba	1918-00-9	74000	0.35 U	0.35 U
Dichlorprop	120-36-5	NE	0.35 U	0.35 U
Silvex (2,4,5-TP)	93-72-1	20000	0.35 U	0.35 U
PCBs				
Aroclor-1016	12674-11-2	150	0.018 U	0.018 U
Aroclor-1221	11104-28-2	83	0.018 U	0.018 U
Aroclor-1232	11141-16-5	72	0.018 U	0.018 U
Aroclor-1242	53469-21-9	95	0.018 U	0.018 U
Aroclor-1248	12672-29-6	94	0.018 U	0.018 U
Aroclor-1254	11097-69-1	44	0.018 U	0.018 U
Aroclor-1260	11096-82-5	99	0.14	0.13
Aroclor-1262	37324-23-5	NE	0.018 U	0.018 U
Aroclor-1268	11100-14-4	NE	0.018 U	0.018 U

See notes on last page.

Table 1
Soil Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Notes:

 = Concentration is above the EPA Removal Management Level for industrial soil

CAS = Chemical abstract services

EPA = U. S. Environmental Protection Agency

HQ = Hazard Quotient

J- = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value, biased low.

J+ = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value, biased high.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

mg/kg = milligrams per kilogram

NE = Not Established

PCBs = Polychlorinated biphenyls

RML = Removal Management Level

TCR = Target Cancer Risk

SVOCs = Semivolatile organic compounds

U = The analyte was not detected.

VOCs = Volatile organic compounds

EPA Removal Management Levels (RMLs) TCR 1E-04 and HQ 3.0 Generic Tables as of November 2022:

<https://www.epa.gov/risk/regional-removal-management-levels-rmls-chemical-contaminants>

Table 2
Confirmation Soil Samples - Laboratory Analytical Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample ID	Result		Units
	Arsenic	Lead	
TI-24-BY-12-20200924	8.7	600	ppm
TI-24-FY-12-20200924	13	390	ppm
TI-25-BY-12-20200924	170	360	ppm
TI-25-FY-12-20200924	93 J	350	ppm
TI-DUP-FY-12-20200924	91	320	ppm
TI-19-BY-12-20200925	7.9	240	ppm
TI-19-FY-12-20200925	7.1	910	ppm
TI-19-SY1-12-20200925	9.6	260	ppm
TI-19-SY2-12-20200925	9.2	310	ppm
TI-25-BY-24-20200929	11	59	ppm
TI-23-BY-12-20200930	9.8	500	ppm
TI-23-FY-12-20200930	75	700	ppm
TI-23-SY1-12-20200930	33	4300	ppm
TI-23-SY2-12-20200930	12	880	ppm
TI-25-FY-24-20201001	11	51 J	ppm
TI-19-SY-24-20201009	8.5	180	ppm
TI-19-FY-24-20201013	6 J-	54 J-	ppm
TI-DUP-20201013	8.1 J-	67 J-	ppm
TI-51-FY-15-20210506	NA	130	ppm
TI-51-DUP-20210506	NA	130	ppm
TI-03-BY-16-20210518	NA	85	ppm
TI-03-DUP-20210518	NA	100	ppm
TI-22-BY-8-20210520	NA	120	ppm
TI-22-DUP-20210520	NA	120	ppm
TI-22-FY-12-20210521	NA	72	ppm

Notes:

BY - Back yard

DUP - Duplicate

FY - Front yard

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NA - Not analyzed

SY - Side yard

ppm - Parts per million

RML - Removal Management Level

400

Concentration is above the EPA Removal Management Level for lead in residential soil.

68

Concentration is above the EPA Removal Management Level for arsenic in residential soil.

Table 3-1
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TACO - Tier-1 Residential Properties			STOCK-BF-20200915	STOCK-TS-20200915
					500-187834-1	Backfill	Topsoil
			Ingestion	Inhalation		9/15/2020	9/15/2020
VOCs (milligrams per kilogram)							
Acetone	67-64-1	180,000	70,000	100,000	0.022 U	0.026 U	0.027 U
Benzene	71-43-2	120	12	0.8	0.0022 U	0.0026 U	0.0027 U
Bromodichloromethane	75-27-4	29	10	3000	0.0022 U	0.0026 U	0.0027 U
Bromoform	75-25-2	1900	81	53	0.0022 U	0.0026 UJ	0.0027 U
Bromomethane (Methyl bromide)	74-83-9	21	110	10	0.0054 UJ	0.0065 UJ	0.0066 UJ
2-Butanone (MEK)	78-93-3	81000	NE	NE	0.0054 U	0.0065 U	0.0066 U
Carbon disulfide	75-15-0	2300	7800	720	0.0054 U	0.0065 U	0.0066 U
Carbon tetrachloride	56-23-5	65	5	0.3	0.0022 U	0.0026 U	0.0027 U
Chlorobenzene	108-90-7	830	1600	130	0.0022 U	0.0026 UJ	0.0027 U
Chloroethane	75-00-3	41000	NE	NE	0.0054 U	0.0065 U	0.0066 U
Chloroform	67-66-3	32	100	0.3	0.0022 U	0.0026 U	0.0027 U
Chloromethane (Methyl chloride)	74-87-3	330	NE	NE	0.0054 U	0.0065 U	0.0066 U
Cyclohexane	110-82-7	20000	NE	NE	0.0022 U	0.0026 U	0.0027 U
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.53	0.46	11	0.0022 U	0.0065 UJ	0.0066 U
Dibromochloromethane	124-48-1	830	1600	1300	0.0022 U	0.0026 UJ	0.0027 U
1,2-Dibromoethane (EDB)	106-93-4	3.6	0.0075	0.17	0.0022 U	0.0026 UJ	0.0027 U
1,2-Dichlorobenzene	95-50-1	5400	7000	560	0.0022 U	0.0026 UJ	0.0027 U
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	0.0022 U	0.0026 UJ	0.0027 U
1,4-Dichlorobenzene	106-46-7	260	NE	11,000	0.0022 U	0.0026 UJ	0.0027 U
Dichlorodifluoromethane	75-71-8	260	NE	NE	0.0054 U	0.0065 U	0.0066 U
1,1-Dichloroethane	75-34-3	360	7800	1300	0.0022 U	0.0026 U	0.0027 U
1,2-Dichloroethane	107-06-2	46	7	0.4	0.0054 U	0.0065 U	0.0066 U
1,1-Dichloroethene	75-35-4	680	3900	290	0.0022 U	0.0026 U	0.0027 U
cis-1,2-Dichloroethene	156-59-2	470	780	1200	0.0022 U	0.0026 U	0.0027 U
trans-1,2-Dichloroethene	156-60-5	4700	1600	3100	0.0022 U	0.0026 U	0.0027 U
1,2-Dichloropropane	78-87-5	47	9	15	0.0022 U	0.0026 U	0.0027 U
cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE	0.0022 U	0.0026 UJ	0.0027 U
trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE	0.0022 U	0.0026 UJ	0.0027 U
Ethylbenzene	100-41-4	580	7800	400	0.0022 U	0.0026 UJ	0.0027 U
2-Hexanone	591-78-6	600	NE	NE	0.0054 U	0.0065 UJ	0.0066 U
Isopropylbenzene	98-82-8	5800	NE	NE	0.0022 U	0.0026 UJ	0.0027 U
Methyl acetate	79-20-9	230000	NE	NE	0.027 U	0.032 UJ	0.033 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	4700	NE	NE	0.0022 U	0.0026 U	0.0027 U
4-Methyl-2-pentanone	108-10-1	99000	NE	NE	0.0022 U	0.0026 U	0.0027 U
Methylcyclohexane	108-87-2	NE	NE	NE	0.0022 U	0.0026 U	0.0027 U
Methylene chloride	75-09-2	1000	85	13	0.0054 U	0.0065 U	0.0066 U
Styrene	100-42-5	18000	16000	1500	0.0022 U	0.0026 UJ	0.0027 U
1,1,2,2-Tetrachloroethane	79-34-5	60	NE	NE	0.0022 U	0.0026 UJ	0.0027 U
Tetrachloroethene	127-18-4	240	12	11	0.0022 U	0.0026 UJ	0.0027 U
Toluene	108-88-3	15000	16000	650	0.0022 U	0.0026 UJ	0.0027 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20000	NE	NE	0.0022 U	0.0026 U	0.0027 U
1,2,4-Trichlorobenzene	120-82-1	170	780	3200	0.0022 U	0.0026 UJ	0.0027 U
1,1,1-Trichloroethane	71-55-6	24000	NE	1200	0.0022 U	0.0026 U	0.0027 U
1,1,2-Trichloroethane	79-00-5	4.5	310	1800	0.0022 U	0.0026 UJ	0.0027 U
Trichloroethene	79-01-6	12	58	5	0.0022 U	0.0026 U	0.0027 U
Trichlorofluoromethane	75-69-4	70000	NE	NE	0.0054 U	0.0065 U	0.0066 U
Vinyl chloride	75-01-4	5.9	0.46	0.28	0.0022 U	0.0026 U	0.0027 U
Xylenes (total)	1330-20-7	1700	16000	320	0.0043 U	0.0052 UJ	0.0053 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

VOC - Volatile Organic Compound

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-2
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected			
				STOCK-BF-20200915		STOCK-TS-20200915	DUPLICATE-01-20200915
				500-187834-1		Backfill	Topsoil
				Ingestion	Inhalation	9/15/2020	9/15/2020
SVOCs (milligrams per kilogram)							
Acenaphthene	83-32-9	11000	4700	NE	0.012 J	0.039 U	0.039 U
Acenaphthylene	208-96-8	NE	NE	NE	0.016 J	0.0075 J	0.008 J
Acetophenone	98-86-2	23000	NE	NE	0.37 U	0.39 U	0.39 U
Anthracene	120-12-7	54000	23000	NE	0.019 J	0.011 J	0.011 J
Atrazine	1912-24-9	240	2700	NE	0.37 U	0.39 U	0.039
Benzaldehyde	100-52-7	17000	NE	NE	1.5 U	1.6 U	1.6 U
Benzo(a)anthracene	56-55-3	110	0.9	NE	0.027 J	0.0057 J	0.0088 J
Benzo(a)pyrene	50-32-8	11	0.09	NE	0.051	0.013 J	0.018 J
Benzo(b)fluoranthene	205-99-2	110	0.9	NE	0.057	0.015 J	0.022 J
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	0.022 J	0.039 U	0.039 U
Benzo(k)fluoranthene	207-08-9	1100	9	NE	0.02 J	0.039 U	0.039 U
1,1'-Biphenyl	92-52-4	140	NE	NE	0.19 UJ	0.20 UJ	0.20 UJ
4-Bromophenyl phenyl ether	101-55-3	NE	NE	NE	0.19 U	0.20 U	0.20 U
Butyl benzyl phthalate	85-68-7	29000	16000	930	0.19 U	0.20 U	0.20 U
Caprolactam	105-60-2	94000	NE	NE	0.37 U	0.39 U	0.39 U
Carbazole	86-74-8	NE	32	NE	0.19 U	0.20 U	0.20 U
bis (2-Chloro-1-methylethyl) ether	108-60-1	9400	NE	NE	0.19 U	0.20 U	0.20 U
4-Chloro-3-methyl phenol	59-50-7	19000	NE	NE	0.37 U	0.39 U	0.39 U
4-Chloroaniline	106-47-8	270	310	NE	0.76 U	0.78 U	0.79 U
bis(2-Chloroethoxy)methane	111-91-1	570	NE	NE	0.19 UJ	0.20 UJ	0.20 UJ
bis(2-Chloroethyl)ether	111-44-4	23	0.6	0.2	0.19 U	0.20 UJ	0.20 UJ
2-Chloronaphthalene	91-58-7	14000	NE	NE	0.19 U	0.20 U	0.20 U
2-Chlorophenol	95-57-8	1200	390	53000	0.19 U	0.20 U	0.20 U
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	NE	0.19 U	0.20 U	0.20 U
Chrysene	218-01-9	11000	88	NE	0.038	0.039 U	0.013 J
Dibenzo(a,h)anthracene	53-70-3	11	0.09	NE	0.012 J	0.39 U	0.39 U
Dibenzofuran	132-64-9	230	NE	NE	0.19 U	0.20 U	0.20 U
3,3'-Dichlorobenzidine	91-94-1	120	1	NE	0.19 U	0.20 U	0.20 U
2,4-Dichlorophenol	120-83-2	570	230	NE	0.37 U	0.39 U	0.39 U
Diethylphthalate	84-66-2	150000	63000	2000	0.19 U	0.20 U	0.20 U
Dimethyl phthalate	131-11-3	NE	NE	NE	0.19 U	0.20 U	0.20 U
2,4-Dimethylphenol	105-67-9	3800	1600	NE	0.37 U	0.39 U	0.39 U
Di-n-butyl phthalate	84-74-2	19000	7800	2300	0.19 U	0.20 U	0.20 U
4,6-Dinitro-2-methylphenol	534-52-1	15	NE	NE	0.76 U	0.78 U	0.79 U
2,4-Dinitrophenol	51-28-5	380	160	NE	0.76 U	0.78 U	0.79 U
2,4-Dinitrotoluene	121-14-2	170	0.9	NE	0.19 UJ	0.20 U	0.20 U
2,6-Dinitrotoluene	606-20-2	36	0.9	NE	0.19 U	0.20 U	0.20 U
Di-n-octylphthalate	117-84-0	1900	1600	10000	0.19 U	0.20 U	0.20 U
bis(2-Ethylhexyl)phthalate	117-81-7	3800	46	31000	0.19 U	0.20 U	0.20 U
Fluoranthene	206-44-0	7200	3100	NE	0.064	0.025 J	0.034 J
Fluorene	86-73-7	7200	3100	NE	0.0094 J	0.039 U	0.039 U
Hexachlorobenzene	118-74-1	21	0.4	1	0.076 U	0.078 U	0.079 U
Hexachlorobutadiene	87-68-3	120	NE	NE	0.19 U	0.20 U	0.20 U
Hexachlorocyclopentadiene	77-47-4	5.3	550	10	0.76 U	0.78 U	0.79 U
Hexachloroethane	67-72-1	130	78	NE	0.19 U	0.20 U	0.20 U
Indeno(1,2,3-c,d)pyrene	193-39-5	110	0.9	NE	0.027 J	0.039 U	0.013 J
Isophorone	78-59-1	38000	15600	4600	0.19 U	0.20 U	0.20 U
2-Methylnaphthalene	91-57-6	720	NE	NE	0.0091 J	0.078 U	0.079 U
2-Methylphenol	95-48-7	9500	3900	NE	0.19 U	0.20 U	0.20 U
3+4-Methylphenol	106-44-5	19000	NE	NE	0.19 U	0.20 U	0.20 U
Naphthalene	91-20-3	390	1600	170	0.037 UJ	0.039 UJ	0.039 UJ
2-Nitroaniline	88-74-4	1900	NE	NE	0.19 U	0.20 U	0.20 U
3-Nitroaniline	99-09-2	NE	NE	NE	0.37 U	0.39 U	0.39 U
4-Nitroaniline	100-01-6	760	NE	NE	0.37 U	0.39 U	0.39 U
Nitrobenzene	98-95-3	380	39	92	0.037 U	0.39 U	0.39 U
2-Nitrophenol	88-75-5	NE	NE	NE	0.37 U	0.39 U	0.39 U
4-Nitrophenol	100-02-7	NE	NE	NE	0.37 U	0.39 U	0.39 U
N-Nitrosodi-n-propylamine	621-64-7	7.8	0.09	NE	0.076 U	0.078 U	0.079 U
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	11000	130	NE	0.019 U	0.20 U	0.20 U
Pentachlorophenol	87-86-5	100	3	NE	0.76 U	0.78 U	0.79 U
Phenanthrene	85-01-8	NE	NE	NE	0.039	0.010 J	0.018 J
Phenol	108-95-2	57000	23000	NE	0.19 U	0.20 U	0.20 U
Pyrene	129-00-0	5400	2300	NE	0.065	0.019 J	0.028 J
2,4,5-Trichlorophenol	95-95-4	19000	7800	NE	0.37 U	0.39 U	0.39 U
2,4,6-Trichlorophenol	88-06-2	190	58	200	0.37 U	0.39 U	0.39 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

SVOC - Semi-Volatile Organic Compound

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-3
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Date Collected		
					STOCK-BF-20200915	STOCK-TS-20200915	DUPLICATE-01-20200915
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
					9/15/2020	9/15/2020	9/15/2020
TAL Metals (milligrams per kilogram)							
Aluminum	7429-90-5	230000	NE	NE	5100	14000 J	14000
Antimony	7440-36-0	94	31	NE	0.78 J	0.51 J-	0.58 J
Arsenic	7440-38-2	68	13	750	5.4	7.5	7.8
Barium	7440-39-3	46000	5500	690000	25	260 J-	150
Beryllium	7440-41-7	470	160	1300	0.46	0.77	0.8
Cadmium	7440-43-9	210	78	1800	0.21 J-	0.13 J-	0.081 J-
Calcium	7440-70-2	NE	NE	NE	96000	2600 J	10000 J
Chromium	7440-47-3	NE	230	270	8.6	17	16
Cobalt	7440-48-4	70	4700	NE	5.8	15	11
Copper	7440-50-8	9400	2900	NE	13	14	15
Iron	7439-89-6	160000	NE	NE	11000	19000 J	20000
Lead	7439-92-1	400	400	NE	14	23	23
Magnesium	7439-95-4	NE	325000	NE	47000	2900 J+	7500 J
Manganese	7439-96-5	5500	1600	69000	280	1800 J	960
Mercury	7439-97-6	33	23	10	0.029	0.026	0.025
Nickel	7440-02-0	4600	1600	13000	14	18	17
Potassium	7440-09-7	15,000	NE	NE	1600	1900 J+	1800
Selenium	7782-49-2	1200	390	NE	1.1 U	0.71 J-	1.0 U
Silver	7440-22-4	1200	390	NE	0.53 U	0.58 U	0.51 U
Sodium	7440-23-5	NE	NE	NE	130	58 J	66 J
Thallium	7440-28-0	2.3	6.3	NE	0.66 J	1.6	0.84 J
Vanadium	7440-62-2	1200	550	NE	12	29 J	28
Zinc	7440-66-6	70000	23000	NE	40	59	55
PCBs (milligrams per kilogram)							
PCB-1016	12674-11-2	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1221	11104-28-2	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1232	11141-16-5	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1242	53469-21-9	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1248	12672-29-6	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1254	11097-69-1	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1260	11096-82-5	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1262	37324-23-5	23	1	NE	0.019 U	0.02 U	0.19 U
PCB-1268	11100-14-4	23	1	NE	0.019 U	0.02 U	0.19 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

PCB - Polychlorinated biphenyl

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TAL - Target Analyte List

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

 Indicates the result exceeds the EPA RML

 Indicates the result exceeds the TACO ingestion criteria

 Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-4
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
					STOCK-BF-20200915	STOCK-TS-20200915	DUPLICATE-01-20200915
					500-187834-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
Pesticides (milligrams per kilogram)							
Aldrin	309-00-2	3.9	0.04	3	0.0019 U	0.0020 U	0.0019 U
gamma-BHC (Lindane)	58-89-9	64	0.5	NE	0.0019 U	0.0020 U	0.0019 U
alpha-BHC	319-84-6	8.6	0.1	0.8	0.0019 U	0.0020 U	0.0019 U
beta-BHC	319-85-7	30	NE	NE	0.0019 U	0.0020 U	0.0019 U
delta-BHC	319-86-8	NE	NE	NE	0.0019 U	0.0020 U	0.0019 U
cis-Chlordane	5103-71-9	NE	NE	NE	0.0019 U	0.0020 U	0.0019 U
trans-Chlordane	5103-74-2	NE	NE	NE	0.0019 U	0.0020 U	0.0019 U
4,4'-DDD	72-54-8	5.7	3	NE	0.0021	0.00061 J	0.00049 J
4,4'-DDE	72-55-9	70	2	NE	0.0019	0.0045	0.0051
4,4'-DDT	50-29-3	110	2	NE	0.0018 J	0.0032	0.0025 J
Dieldrin	60-57-1	3.4	0.04	1	0.00049 J	0.0019 J	0.0022
Endosulfan I	959-98-8	1400	470	NE	0.0019 U	0.0020 U	0.0019 U
Endosulfan II	33213-65-9	1400	470	NE	0.0019 U	0.0020 U	0.0019 U
Endosulfan sulfate	1031-07-8	1100	NE	NE	0.0019 U	0.0020 U	0.0019 U
Endrin	72-20-8	57	23	NE	0.0019 U	0.0020 U	0.0019 U
Endrin aldehyde	7421-93-4	NE	NE	NE	0.0019 UJ	0.0020 U	0.0019 UJ
Endrin ketone	53494-70-5	NE	NE	NE	0.0019 U	0.0020 U	0.0019 U
Heptachlor	76-44-8	13	0.1	0.1	0.0019 U	0.0020 U	0.0019 U
Heptachlor epoxide	1024-57-3	3.1	0.07	5	0.0019 U	0.0020 U	0.0019 U
Methoxychlor	72-43-5	950	390	NE	0.0093 U	0.0097 U	0.0094 U
Toxaphene	8001-35-2	17	0.6	89	0.019 U	0.020 U	0.019 U
Herbicides (milligrams per kilogram)							
2,4,5-T	93-76-5	1900	NE	NE	0.37 U	0.38 U	0.38 U
2,4-D	94-75-7	2100	780	NE	0.37 U	0.38 U	0.38 U
2,4-DB	94-82-6	5700	NE	NE	0.37 U	0.38 U	0.38 U
Dicamba	1918-00-9	5700	NE	NE	0.37 U	0.38 U	0.38 U
Dichloroprop	120-36-5	NE	NE	NE	0.37 U	0.38 U	0.38 U
2,4,5-TP (Silvex)	93-72-1	1500	630	NE	0.37 U	0.38 U	0.38 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

CAS - Chemical Abstract Service

HQ - Hazard quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-5
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TACO - Tier-1 Residential Properties			STOCK-BF-20210401	STOCK-TS-20210401
						500-196979-1	
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
VOCs (milligrams per kilogram)							
Acetone	67-64-1	180,000	70,000	100,000	0.025 U	0.036 U	0.029 U
Benzene	71-43-2	120	12	0.8	0.0025 U	0.0036 U	0.0029 U
Bromodichloromethane	75-27-4	29	10	3000	0.0025 U	0.0036 U	0.0029 U
Bromoform	75-25-2	1900	81	53	0.0025 U	0.0036 U	0.0029 U
Bromomethane (Methyl bromide)	74-83-9	21	110	10	0.0062 U	0.0089 U	0.0073 U
2-Butanone (MEK)	78-93-3	81000	NE	NE	0.0062 U	0.0089 U	0.0073 U
Carbon disulfide	75-15-0	2300	7800	720	0.0062 U	0.0089 U	0.0073 U
Carbon tetrachloride	56-23-5	65	5	0.3	0.0025 U	0.0036 U	0.0029 U
Chlorobenzene	108-90-7	830	1600	130	0.0025 U	0.0036 U	0.0029 U
Chloroethane	75-00-3	41000	NE	NE	0.0062 U	0.0089 U	0.0073 U
Chloroform	67-66-3	32	100	0.3	0.0025 U	0.0036 U	0.0029 U
Chloromethane (Methyl chloride)	74-87-3	330	NE	NE	0.0062 U	0.0089 U	0.0073 U
Cyclohexane	110-82-7	20000	NE	NE	0.0025 U	0.0036 U	0.0029 U
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.53	0.46	11	0.0062 U	0.0089 U	0.0073 U
Dibromochloromethane	124-48-1	830	1600	1300	0.0025 U	0.0036 U	0.0029 U
1,2-Dibromoethane (EDB)	106-93-4	3.6	0.0075	0.17	0.0025 U	0.0036 U	0.0029 U
1,2-Dichlorobenzene	95-50-1	5400	7000	560	0.0025 U	0.0036 U	0.0029 U
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	0.0025 UJ	0.0036 U	0.0029 U
1,4-Dichlorobenzene	106-46-7	260	NE	11,000	0.0025 UJ	0.0036 U	0.0029 U
Dichlorodifluoromethane	75-71-8	260	NE	NE	0.0062 U	0.0089 U	0.0073 U
1,1-Dichloroethane	75-34-3	360	7800	1300	0.0025 U	0.0036 U	0.0029 U
1,2-Dichloroethane	107-06-2	46	7	0.4	0.0062 U	0.0089 U	0.0073 U
1,1-Dichloroethene	75-35-4	680	3900	290	0.0025 U	0.0036 U	0.0029 U
cis-1,2-Dichloroethene	156-59-2	470	780	1200	0.0025 U	0.0036 U	0.0029 U
trans-1,2-Dichloroethene	156-60-5	4700	1600	3100	0.0025 U	0.0036 U	0.0029 U
1,2-Dichloropropane	78-87-5	47	9	15	0.0025 U	0.0036 U	0.0029 U
cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE	0.0025 U	0.0036 U	0.0029 U
trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE	0.0025 U	0.0036 U	0.0029 U
Ethylbenzene	100-41-4	580	7800	400	0.0025 U	0.0036 U	0.0029 U
2-Hexanone	591-78-6	600	NE	NE	0.0062 U	0.0089 U	0.0073 U
Isopropylbenzene	98-82-8	5800	NE	NE	0.0025 U	0.0036 U	0.0029 U
Methyl acetate	79-20-9	230000	NE	NE	0.031 U	0.045 U	0.036 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	4700	NE	NE	0.0025 U	0.0036 U	0.0029 U
4-Methyl-2-pentanone	108-10-1	99000	NE	NE	0.0062 U	0.0089 U	0.0073 U
Methylcyclohexane	108-87-2	NE	NE	NE	0.0025 U	0.0036 U	0.0029 U
Methylene chloride	75-09-2	1000	85	13	0.0062 U	0.0089 U	0.0073 U
Styrene	100-42-5	18000	16000	1500	0.0025 UJ	0.0036 U	0.0029 U
1,1,2,2-Tetrachloroethane	79-34-5	60	NE	NE	0.0025 U	0.0036 U	0.0029 U
Tetrachloroethene	127-18-4	240	12	11	0.0025 U	0.0036 U	0.0029 U
Toluene	108-88-3	15000	16000	650	0.0025 U	0.0036 U	0.0029 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20000	NE	NE	0.0025 U	0.0036 U	0.0029 U
1,2,4-Trichlorobenzene	120-82-1	170	780	3200	0.0025 UJ	0.0036 U	0.0029 U
1,1,1-Trichloroethane	71-55-6	24000	NE	1200	0.0025 U	0.0036 U	0.0029 U
1,1,2-Trichloroethane	79-00-5	4.5	310	1800	0.0025 U	0.0036 U	0.0029 U
Trichloroethene	79-01-6	12	58	5	0.0025 U	0.0036 U	0.0029 U
Trichlorofluoromethane	75-69-4	70000	NE	NE	0.0062 U	0.0089 U	0.0073 U
Vinyl chloride	75-01-4	5.9	0.46	0.28	0.0025 U	0.0036 U	0.0029 U
Xylenes (total)	1330-20-7	1700	16000	320	0.0049 U	0.0071 U	0.0058 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

VOC - Volatile Organic Compound

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-6
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
					STOCK-BF-20210401	STOCK-TS-20210401	STOCK-DUP-01-20210401
					500-196979-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
SVOCs (milligrams per kilogram)							
Acenaphthene	83-32-9	11000	4700	NE	0.066	0.037 U	0.038 U
Acenaphthylene	208-96-8	NE	NE	NE	0.053	0.037 U	0.038 U
Acetophenone	98-86-2	23000	NE	NE	0.34 UJ	0.37 UJ	0.38 U
Anthracene	120-12-7	54000	23000	NE	0.079	0.0072 J	0.038 U
Atrazine	1912-24-9	240	2700	NE	0.34 U	0.37 U	0.38 U
Benzaldehyde	100-52-7	17000	NE	NE	1.4 UJ	1.5 UJ	1.5 U
Benzo(a)anthracene	56-55-3	110	1.8 *	NE	0.17	0.043	0.031 J
Benzo(a)pyrene	50-32-8	11	2.1 *	NE	0.19	0.057	0.041
Benzo(b)fluoranthene	205-99-2	110	2.1 *	NE	0.18	0.076	0.065
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	0.095 J-	0.044	0.033 J
Benzo(k)fluoranthene	207-08-9	1100	9	NE	0.079	0.029 J	0.018 J
1,1'-Biphenyl	92-52-4	140	NE	NE	0.17 U	0.19 U	0.19 U
4-Bromophenyl phenyl ether	101-55-3	NE	NE	NE	0.17 U	0.19 U	0.19 U
Butyl benzyl phthalate	85-68-7	29000	16000	930	0.17 U	0.19 U	0.19 U
Caprolactam	105-60-2	94000	NE	NE	0.34 U	0.37 U	0.38 U
Carbazole	86-74-8	NE	32	NE	0.17 U	0.19 U	0.19 U
bis (2-Chloro-1-methylethyl) ether	108-60-1	9400	NE	NE	0.17 U	0.19 U	0.19 U
4-Chloro-3-methyl phenol	59-50-7	19000	NE	NE	0.34 U	0.37 U	0.38 U
4-Chloroaniline	106-47-8	270	310	NE	0.7 U	0.75 U	0.76 U
bis(2-Chloroethoxy)methane	111-91-1	570	NE	NE	0.17 U	0.19 U	0.19 U
bis(2-Chloroethyl)ether	111-44-4	23	0.6	0.2	0.17 U	0.19 U	0.19 U
2-Chloronaphthalene	91-58-7	14000	NE	NE	0.17 U	0.19 U	0.19 U
2-Chlorophenol	95-57-8	1200	390	53000	0.17 U	0.19 U	0.19 U
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	NE	0.17 U	0.19 U	0.19 U
Chrysene	218-01-9	11000	88	NE	0.18	0.059	0.047
Dibenzo(a,h)anthracene	53-70-3	11	0.09	NE	0.03 J	0.01 J	0.038 U
Dibenzofuran	132-64-9	230	NE	NE	0.17 U	0.19 U	0.19 U
3,3'-Dichlorobenzidine	91-94-1	120	1	NE	0.17 U	0.19 U	0.19 U
2,4-Dichlorophenol	120-83-2	570	230	NE	0.34 U	0.37 U	0.38 U
Diethylphthalate	84-66-2	150000	63000	2000	0.17 U	0.19 U	0.19 U
Dimethyl phthalate	131-11-3	NE	NE	NE	0.17 U	0.19 U	0.19 U
2,4-Dimethylphenol	105-67-9	3800	1600	NE	0.34 U	0.37 U	0.38 U
Di-n-butyl phthalate	84-74-2	19000	7800	2300	0.17 U	0.19 U	0.19 U
4,6-Dinitro-2-methylphenol	534-52-1	15	NE	NE	0.7 U	0.75 U	0.76 U
2,4-Dinitrophenol	51-28-5	380	160	NE	0.7 U	0.75 U	0.76 U
2,4-Dinitrotoluene	121-14-2	170	0.9	NE	0.17 U	0.19 U	0.19 U
2,6-Dinitrotoluene	606-20-2	36	0.9	NE	0.17 U	0.19 U	0.19 U
Di-n-octylphthalate	117-84-0	1900	1600	10000	0.17 U	0.19 U	0.19 U
bis(2-Ethylhexyl)phthalate	117-81-7	3800	46	31000	0.17 U	0.19 U	0.19 U
Fluoranthene	206-44-0	7200	3100	NE	0.31	0.11	0.074
Fluorene	86-73-7	7200	3100	NE	0.055	0.037 U	0.038 U
Hexachlorobenzene	118-74-1	21	0.4	1	0.07 U	0.075 U	0.076 U
Hexachlorobutadiene	87-68-3	120	NE	NE	0.17 U	0.19 U	0.19 U
Hexachlorocyclopentadiene	77-47-4	5.3	550	10	0.7 UJ	0.75 U	0.76 U
Hexachloroethane	67-72-1	130	78	NE	0.17 U	0.19 U	0.19 U
Indeno(1,2,3-c,d)pyrene	193-39-5	110	1.6 *	NE	0.086	0.039	0.031 J
Isophorone	78-59-1	38000	15600	4600	0.17 U	0.19 U	0.19 U
2-Methylnaphthalene	91-57-6	720	NE	NE	0.058 J	0.075 U	0.076 U
2-Methylphenol	95-48-7	9500	3900	NE	0.17 U	0.19 U	0.19 U
3+4-Methylphenol	106-44-5	19000	NE	NE	0.17 U	0.091 J	0.096 J
Naphthalene	91-20-3	390	1600	170	0.078	0.037 U	0.038 U
2-Nitroaniline	88-74-4	1900	NE	NE	0.17 U	0.19 U	0.19 U
3-Nitroaniline	99-09-2	NE	NE	NE	0.34 U	0.37 U	0.38 U
4-Nitroaniline	100-01-6	760	NE	NE	0.34 U	0.37 U	0.38 U
Nitrobenzene	98-95-3	380	39	92	0.034 U	0.037 U	0.038 U
2-Nitrophenol	88-75-5	NE	NE	NE	0.34 U	0.37 U	0.38 U
4-Nitrophenol	100-02-7	NE	NE	NE	0.7 U	0.75 U	0.76 U
N-Nitrosodi-n-propylamine	621-64-7	7.8	0.09	NE	0.07 U	0.075 U	0.076 U
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	11000	130	NE	0.17 U	0.19 U	0.19 U
Pentachlorophenol	87-86-5	100	3	NE	0.7 U	0.75 U	0.76 U
Phenanthrene	85-01-8	NE	NE	NE	0.27	0.04	0.028 J
Phenol	108-95-2	57000	23000	NE	0.17 U	0.19 U	0.19 U
Pyrene	129-00-0	5400	2300	NE	0.3	0.078	0.054
2,4,5-Trichlorophenol	95-95-4	19000	7800	NE	0.34 U	0.37 U	0.38 U
2,4,6-Trichlorophenol	88-06-2	190	58	200	0.34 U	0.37 U	0.38 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

SVOC - Semi-Volatile Organic Compound

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-7
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Date Collected		
					STOCK-BF-20210401	STOCK-TS-20210401	STOCK-DUP-01-20210401
					500-196979-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
TAL Metals (milligrams per kilogram)							
Aluminum	7429-90-5	230000	NE	NE	5300	17000	16000
Antimony	7440-36-0	94	31	NE	1.9 UJ	1.0 J+	0.63 J +
Arsenic	7440-38-2	68	13 *	750	8.2 J-	8.2	8.4
Barium	7440-39-3	46000	5500	690000	28	110	100
Beryllium	7440-41-7	470	160	1300	0.57	1.1	1.1
Cadmium	7440-43-9	210	78	1800	0.26 J+	0.32 J+	0.31 J+
Calcium	7440-70-2	NE	NE	NE	82000	6200	5900
Chromium	7440-47-3	NE	230	270	9.1	22	21
Cobalt	7440-48-4	70	4700	NE	7.4	16	16
Copper	7440-50-8	9400	2900	NE	270 J	25	25
Iron	7439-89-6	160000	NE	NE	13000	22000	22000
Lead	7439-92-1	400	400	NE	16	31	34
Magnesium	7439-95-4	NE	325000	NE	42000	5200	5000
Manganese	7439-96-5	5500	1600	69000	310	580	530
Mercury	7439-97-6	33	23	10	0.05	0.044	0.046
Nickel	7440-02-0	4600	1600	13000	18	26	26
Potassium	7440-09-7	15,000	NE	NE	1600 J+	2600	2300
Selenium	7782-49-2	1200	390	NE	0.97 U	1.1 U	1.0 U
Silver	7440-22-4	1200	390	NE	0.21 J	0.4 J	0.45 J
Sodium	7440-23-5	NE	NE	NE	130	88 J	85 J
Thallium	7440-28-0	2.3	6.3	NE	0.49 J	1.1 U	0.73 J
Vanadium	7440-62-2	1200	550	NE	12	33	30
Zinc	7440-66-6	70000	23000	NE	52	76	82
PCBs (milligrams per kilogram)							
PCB-1016	12674-11-2	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1221	11104-28-2	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1232	11141-16-5	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1242	53469-21-9	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1248	12672-29-6	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1254	11097-69-1	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1260	11096-82-5	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1262	37324-23-5	23	1	NE	0.018 U	0.019 U	0.019 U
PCB-1268	11100-14-4	23	1	NE	0.018 U	0.019 U	0.019 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

PCB - Polychlorinated biphenyl

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TAL - Target Analyte List

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

J-- The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-8
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected			
				STOCK-BF-20210401		STOCK-TS-20210401	STOCK-DUP-01-20210401
				500-196979-1			
				Backfill	Topsoil	Topsoil Duplicate	
Ingestion	Inhalation			4/1/2021	4/1/2021	4/1/2021	
Pesticides (milligrams per kilogram)							
Aldrin	309-00-2	3.9	0.04	3	0.0018 U	0.0015 J	0.0016 J
gamma-BHC (Lindane)	58-89-9	64	0.5	NE	0.0018 U	0.0019 U	0.002 U
alpha-BHC	319-84-6	8.6	0.1	0.8	0.0018 U	0.0019 U	0.002 U
beta-BHC	319-85-7	30	NE	NE	0.0018 U	0.0019 U	0.002 U
delta-BHC	319-86-8	NE	NE	NE	0.0018 U	0.0019 U	0.002 U
cis-Chlordane	5103-71-9	NE	NE	NE	0.0018 U	0.0019 U	0.002 U
trans-Chlordane	5103-74-2	NE	NE	NE	0.0018 U	0.0019 U	0.002 U
4,4'-DDD	72-54-8	5.7	3	NE	0.0063 J	0.0015 J	0.0018 J
4,4'-DDE	72-55-9	70	2	NE	0.0044	0.0057	0.0065
4,4'-DDT	50-29-3	110	2	NE	0.0047	0.0034	0.0039 J
Dieldrin	60-57-1	3.4	0.04	1	0.0018 U	0.0068	0.007
Endosulfan I	959-98-8	1400	470	NE	0.0018 U	0.0019 U	0.002 U
Endosulfan II	33213-65-9	1400	470	NE	0.0018 U	0.0019 U	0.002 U
Endosulfan sulfate	1031-07-8	1100	NE	NE	0.0018 U	0.0019 U	0.002 U
Endrin	72-20-8	57	23	NE	0.0018 U	0.0019 U	0.002 U
Endrin aldehyde	7421-93-4	NE	NE	NE	0.0018 U	0.0019 U	0.002 U
Endrin ketone	53494-70-5	NE	NE	NE	0.0018 U	0.0019 U	0.002 U
Heptachlor	76-44-8	13	0.1	0.1	0.0018 U	0.0019 U	0.002 U
Heptachlor epoxide	1024-57-3	3.1	0.07	5	0.0018 U	0.0019 U	0.002 U
Methoxychlor	72-43-5	950	390	NE	0.0089 U	0.0037 U	0.0096 U
Toxaphene	8001-35-2	17	0.6	89	0.018 U	0.019 U	0.019 U
Herbicides (milligrams per kilogram)							
2,4,5-T	93-76-5	1900	NE	NE	0.35 U	0.38 U	0.38 U
2,4-D	94-75-7	2100	780	NE	0.35 U	0.38 U	0.38 U
2,4-DB	94-82-6	5700	NE	NE	0.35 U	0.38 U	0.38 U
Dicamba	1918-00-9	5700	NE	NE	0.35 U	0.38 U	0.38 U
Dichloroprop	120-36-5	NE	NE	NE	0.35 U	0.38 U	0.38 U
2,4,5-TP (Silvex)	93-72-1	1500	630	NE	0.35 U	0.38 U	0.38 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

CAS - Chemical Abstract Service

HQ - Hazard quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

 Indicates the result exceeds the EPA RML

 Indicates the result exceeds the TACO ingestion criteria

 Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-9
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TAO - Tier-1 Residential Properties	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected			
				STOCK-BF-20210726		STOCK-TS-20210726	DUPLICATE-01-20210726
				500-202852-1			
				Backfill	Topsoil	Topsoil Duplicate	
Ingestion	Inhalation			7/26/2021	7/26/2021	7/26/2021	
VOCs (milligrams per kilogram)							
Acetone	67-64-1	180,000	70,000	100,000	0.016 J	0.031 U	0.029 U
Benzene	71-43-2	120	12	0.8	0.003 UJ	0.0031 U	0.0029 U
Bromodichloromethane	75-27-4	29	10	3000	0.003 UJ	0.0031 U	0.0029 U
Bromoform	75-25-2	1900	81	53	0.003 UJ	0.0031 U	0.0029 U
Bromomethane (Methyl bromide)	74-83-9	21	110	10	0.0076 UJ	0.0079 U	0.0072 U
2-Butanone (MEK)	78-93-3	81000	NE	NE	0.0076 U	0.0079 U	0.0072 U
Carbon disulfide	75-15-0	2300	7800	720	0.0076 UJ	0.0079 U	0.0072 U
Carbon tetrachloride	56-23-5	65	5	0.3	0.003 UJ	0.0031 U	0.0029 U
Chlorobenzene	108-90-7	830	1600	130	0.003 UJ	0.0031 U	0.0029 U
Chloroethane	75-00-3	41000	NE	NE	0.0076 UJ	0.0079 U	0.0072 U
Chloroform	67-66-3	32	100	0.3	0.003 UJ	0.0031 U	0.0029 U
Chloromethane (Methyl chloride)	74-87-3	330	NE	NE	0.0076 UJ	0.0079 UJ	0.0072 U
Cyclohexane	110-82-7	20000	NE	NE	0.003 UJ	0.0031 U	0.0029 U
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.53	0.46	11	0.0076 UJ	0.0079 U	0.0072 U
Dibromochloromethane	124-48-1	830	1600	1300	0.003 UJ	0.0031 U	0.0029 U
1,2-Dibromoethane (EDB)	106-93-4	3.6	0.0075	0.17	0.003 UJ	0.0031 U	0.0029 U
1,2-Dichlorobenzene	95-50-1	5400	7000	560	0.003 UJ	0.0031 U	0.0029 U
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	0.003 UJ	0.0031 U	0.0029 U
1,4-Dichlorobenzene	106-46-7	260	NE	11,000	0.003 UJ	0.0031 U	0.0029 U
Dichlorodifluoromethane	75-71-8	260	NE	NE	0.0076 U	0.0079 U	0.0072 U
1,1-Dichloroethane	75-34-3	360	7800	1300	0.003 UJ	0.0031 U	0.0029 U
1,2-Dichloroethane	107-06-2	46	7	0.4	0.0076 UJ	0.0079 U	0.0072 U
1,1-Dichloroethene	75-35-4	680	3900	290	0.003 UJ	0.0031 U	0.0029 U
cis-1,2-Dichloroethene	156-59-2	470	780	1200	0.003 UJ	0.0031 U	0.0029 U
trans-1,2-Dichloroethene	156-60-5	4700	1600	3100	0.003 UJ	0.0031 U	0.0029 U
1,2-Dichloropropane	78-87-5	47	9	15	0.003 UJ	0.0031 U	0.0029 U
cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE	0.003 UJ	0.0031 U	0.0029 U
trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE	0.003 UJ	0.0031 U	0.0029 U
Ethylbenzene	100-41-4	580	7800	400	0.003 UJ	0.0031 U	0.0029 U
2-Hexanone	591-78-6	600	NE	NE	0.0076 UJ	0.0079 U	0.0072 U
Isopropylbenzene	98-82-8	5800	NE	NE	0.003 UJ	0.0031 U	0.0029 U
Methyl acetate	79-20-9	230000	NE	NE	0.038 UJ	0.039 U	0.036 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	4700	NE	NE	0.003 UJ	0.0031 U	0.0029 U
4-Methyl-2-pentanone	108-10-1	99000	NE	NE	0.0076 UJ	0.0079 U	0.0072 U
Methylcyclohexane	108-87-2	NE	NE	NE	0.003 UJ	0.0031 U	0.0029 U
Methylene chloride	75-09-2	1000	85	13	0.0076 UJ	0.0079 U	0.0072 U
Styrene	100-42-5	18000	16000	1500	0.003 UJ	0.0031 U	0.0029 U
1,1,2,2-Tetrachloroethane	79-34-5	60	NE	NE	0.003 UJ	0.0031 U	0.0029 U
Tetrachloroethene	127-18-4	240	12	11	0.003 UJ	0.0031 U	0.0029 U
Toluene	108-88-3	15000	16000	650	0.003 UJ	0.0031 U	0.0029 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20000	NE	NE	0.003 UJ	0.0031 U	0.0029 U
1,2,4-Trichlorobenzene	120-82-1	170	780	3200	0.003 UJ	0.0031 U	0.0029 U
1,1,1-Trichloroethane	71-55-6	24000	NE	1200	0.003 UJ	0.0031 U	0.0029 U
1,1,2-Trichloroethane	79-00-5	4.5	310	1800	0.003 UJ	0.0031 U	0.0029 U
Trichloroethene	79-01-6	12	58	5	0.003 UJ	0.0031 U	0.0029 U
Trichlorofluoromethane	75-69-4	70000	NE	NE	0.0076 UJ	0.0079 U	0.0072 U
Vinyl chloride	75-01-4	5.9	0.46	0.28	0.003 UJ	0.0031 U	0.0029 U
Xylenes (total)	1330-20-7	1700	16000	320	0.0061 UJ	0.0063 U	0.0058 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

TAO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

VOC - Volatile Organic Compound

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-10
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected			
					STOCK-BF-20210726	STOCK-TS-20210726	DUPLICATE-01-20210726	
			500-202852-1		Backfill	Topsoil	Topsoil Duplicate	
			Ingestion	Inhalation	7/26/2021	7/26/2021	7/26/2021	7/26/2021
SVOCs (milligrams per kilogram)								
Acenaphthene	83-32-9	11000	4700	NE	0.02 J	0.035 U	0.034 U	
Acenaphthylene	208-96-8	NE	NE	NE	0.017 J	0.035 U	0.034 U	
Acetophenone	98-86-2	23000	NE	NE	0.34 U	0.35 U	0.34 U	
Anthracene	120-12-7	54000	23000	NE	0.023 J	0.035 U	0.0074 J	
Atrazine	1912-24-9	240	2700	NE	0.34 U	0.35 U	0.34 U	
Benzaldehyde	100-52-7	17000	NE	NE	1.4 U	1.4 U	1.4 U	
Benzo(a)anthracene	56-55-3	110	1.8 *	NE	0.053	0.028 J	0.041	
Benzo(a)pyrene	50-32-8	11	2.1 *	NE	0.065	0.041	0.056	
Benzo(b)fluoranthene	205-99-2	110	2.1 *	NE	0.084	0.067	0.087	
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	0.034 U	0.035 U	0.034 U	
Benzo(k)fluoranthene	207-08-9	1100	9	NE	0.025 J	0.02 J	0.033 J	
1,1'-Biphenyl	92-52-4	140	NE	NE	0.17 U	0.18 U	0.17 U	
4-Bromophenyl phenyl ether	101-55-3	NE	NE	NE	0.17 U	0.18 U	0.17 U	
Butyl benzyl phthalate	85-68-7	29000	16000	930	0.17 U	0.18 U	0.17 U	
Caprolactam	105-60-2	94000	NE	NE	0.34 U	0.35 U	0.34 U	
Carbazole	86-74-8	NE	32	NE	0.17 U	0.18 U	0.17 U	
bis (2-Chloro-1-methylethyl) ether	108-60-1	9400	NE	NE	0.17 U	0.18 U	0.17 U	
4-Chloro-3-methyl phenol	59-50-7	19000	NE	NE	0.34 U	0.35 U	0.34 U	
4-Chloroaniline	106-47-8	270	310	NE	0.69 U	0.71 U	0.69 U	
bis(2-Chloroethoxy)methane	111-91-1	570	NE	NE	0.17 U	0.18 U	0.17 U	
bis(2-Chloroethyl)ether	111-44-4	23	0.6	0.2	0.17 U	0.18 U	0.17 U	
2-Chloronaphthalene	91-58-7	14000	NE	NE	0.17 U	0.18 U	0.17 U	
2-Chlorophenol	95-57-8	1200	390	53000	0.17 U	0.18 U	0.17 U	
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	NE	0.17 U	0.18 U	0.17 U	
Chrysene	218-01-9	11000	88	NE	0.067	0.047	0.058	
Dibenzo(a,h)anthracene	53-70-3	11	0.09	NE	0.0082 J	0.035 U	0.0074 J	
Dibenzofuran	132-64-9	230	NE	NE	0.17 U	0.18 U	0.17 U	
3,3'-Dichlorobenzidine	91-94-1	120	1	NE	0.17 UJ	0.18 UJ	0.17 UJ	
2,4-Dichlorophenol	120-83-2	570	230	NE	0.34 U	0.35 U	0.34 U	
Diethylphthalate	84-66-2	150000	63000	2000	0.17 U	0.18 U	0.17 U	
Dimethyl phthalate	131-11-3	NE	NE	NE	0.17 U	0.18 U	0.17 U	
2,4-Dimethylphenol	105-67-9	3800	1600	NE	0.34 U	0.35 U	0.34 U	
Di-n-butyl phthalate	84-74-2	19000	7800	2300	0.17 U	0.18 U	0.17 U	
4,6-Dinitro-2-methylphenol	534-52-1	15	NE	NE	0.69 U	0.71 U	0.7 U	
2,4-Dinitrophenol	51-28-5	380	160	NE	0.69 UJ	0.71 U	0.7 U	
2,4-Dinitrotoluene	121-14-2	170	0.9	NE	0.17 U	0.18 U	0.17 U	
2,6-Dinitrotoluene	606-20-2	36	0.9	NE	0.17 U	0.18 U	0.17 U	
Di-n-octylphthalate	117-84-0	1900	1600	10000	0.17 UJ	0.18 UJ	0.17 UJ	
bis(2-Ethylhexyl)phthalate	117-81-7	3800	46	31000	0.17 U	0.18 U	0.17 U	
Fluoranthene	206-44-0	7200	3100	NE	0.089	0.069	0.1	
Fluorene	86-73-7	7200	3100	NE	0.034 U	0.035 U	0.034 U	
Hexachlorobenzene	118-74-1	21	0.4	1	0.069 U	0.071 U	0.07 U	
Hexachlorobutadiene	87-68-3	120	NE	NE	0.17 U	0.18 U	0.17 U	
Hexachlorocyclopentadiene	77-47-4	5.3	550	10	0.69 UJ	0.71 UJ	0.7 UJ	
Hexachloroethane	67-72-1	130	78	NE	0.17 U	0.18 U	0.17 U	
Indeno(1,2,3-c,d)pyrene	193-39-5	110	1.6 *	NE	0.019 J	0.022 J	0.026 J	
Isophorone	78-59-1	38000	15600	4600	0.17 U	0.18 U	0.17 U	
2-Methylnaphthalene	91-57-6	720	NE	NE	0.014 J	0.099	0.07 U	
2-Methylphenol	95-48-7	9500	3900	NE	0.17 U	0.18 U	0.17 U	
3+4-Methylphenol	106-44-5	19000	NE	NE	0.17 U	0.29	0.17 U	
Naphthalene	91-20-3	390	1600	170	0.021 J	0.0069 J	0.034 U	
2-Nitroaniline	88-74-4	1900	NE	NE	0.17 U	0.18 U	0.17 U	
3-Nitroaniline	99-09-2	NE	NE	NE	0.34 U	0.35 U	0.34 U	
4-Nitroaniline	100-01-6	760	NE	NE	0.34 UJ	0.35 UJ	0.34 UJ	
Nitrobenzene	98-95-3	380	39	92	0.034 U	0.035 U	0.034 U	
2-Nitrophenol	88-75-5	NE	NE	NE	0.34 U	0.35 U	0.34 U	
4-Nitrophenol	100-02-7	NE	NE	NE	0.69 U	0.71 U	0.7 U	
N-Nitrosodi-n-propylamine	621-64-7	7.8	0.09	NE	0.069 U	0.071 U	0.07 U	
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	11000	130	NE	0.17 U	0.18 U	0.17 U	
Pentachlorophenol	87-86-5	100	3	NE	0.69 U	0.71 U	0.7 U	
Phenanthrene	85-01-8	NE	NE	NE	0.066	0.06	0.044	
Phenol	108-95-2	57000	23000	NE	0.17 U	0.18 U	0.17 U	
Pyrene	129-00-0	5400	2300	NE	0.091	0.049	0.069	
2,4,5-Trichlorophenol	95-95-4	19000	7800	NE	0.34 U	0.35 U	0.034 U	
2,4,6-Trichlorophenol	88-06-2	190	58	200	0.34 U	0.35 U	0.034 U	

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

SVOC - Semi-Volatile Organic Compound

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-11
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
					STOCK-BF-20210726	STOCK-TS-20210726	DUPLICATE-01-20210726
					500-202852-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
TAL Metals (milligrams per kilogram)							
Aluminum	7429-90-5	230000	NE	NE	5700 J	15000	16000
Antimony	7440-36-0	94	31	NE	0.65 J-	1.5 J	1.2 J
Arsenic	7440-38-2	68	13 *	750	5.5	7.8	9.1
Barium	7440-39-3	46000	5500	690000	29 J	96	98
Beryllium	7440-41-7	470	160	1300	0.58	1.1	1.1
Cadmium	7440-43-9	210	78	1800	0.19 U	0.22 J	0.25 J
Calcium	7440-70-2	NE	NE	NE	100000	9800	11000
Chromium	7440-47-3	NE	230	270	9.3	20	20
Cobalt	7440-48-4	70	4700	NE	6.7	13	18
Copper	7440-50-8	9400	2900	NE	15 J	25	26
Iron	7439-89-6	160000	NE	NE	12000 J	21000	21000
Lead	7439-92-1	400	400	NE	15	31	36
Magnesium	7439-95-4	NE	325000	NE	49000 J	6800	7200
Manganese	7439-96-5	5500	1600	69000	310 J	370	480
Mercury	7439-97-6	33	23	10	0.029	0.045	0.053
Nickel	7440-02-0	4600	1600	13000	16	26	28
Potassium	7440-09-7	15,000	NE	NE	1700 J+	2100	2400
Selenium	7782-49-2	1200	390	NE	0.94 U	1 U	0.96 U
Silver	7440-22-4	1200	390	NE	0.2 J	0.41 J	0.48
Sodium	7440-23-5	NE	NE	NE	130	87 J	82 J
Thallium	7440-28-0	2.3	6.3	NE	0.94 U	1 U	0.96 U
Vanadium	7440-62-2	1200	550	NE	13 J	29	31
Zinc	7440-66-6	70000	23000	NE	47 J	81	82
PCBs (milligrams per kilogram)							
PCB-1016	12674-11-2	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1221	11104-28-2	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1232	11141-16-5	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1242	53469-21-9	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1248	12672-29-6	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1254	11097-69-1	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1260	11096-82-5	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1262	37324-23-5	23	1	NE	0.018 U	0.018 U	0.017 U
PCB-1268	11100-14-4	23	1	NE	0.018 U	0.018 U	0.017 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

PCB - Polychlorinated biphenyl

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TAL - Target Analyte List

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-12
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
					STOCK-BF-20210726	STOCK-TS-20210726	DUPLICATE-01-20210726
					500-202852-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
Pesticides (milligrams per kilogram)							
Aldrin	309-00-2	3.9	0.04	3	0.0018 U	0.0018 U	0.0012 J
gamma-BHC (Lindane)	58-89-9	64	0.5	NE	0.0018 U	0.0018 U	0.0017 U
alpha-BHC	319-84-6	8.6	0.1	0.8	0.0018 U	0.0018 U	0.0017 U
beta-BHC	319-85-7	30	NE	NE	0.0018 UJ	0.0018 U	0.0017 U
delta-BHC	319-86-8	NE	NE	NE	0.0018 U	0.0018 U	0.0017 U
cis-Chlordane	5103-71-9	NE	NE	NE	0.0018 U	0.0018 U	0.0017 U
trans-Chlordane	5103-74-2	NE	NE	NE	0.0018 U	0.0018 U	0.0017 U
4,4'-DDD	72-54-8	5.7	3	NE	0.0036	0.0012 J	0.0021
4,4'-DDE	72-55-9	70	2	NE	0.0025	0.0034 J	0.0058 J
4,4'-DDT	50-29-3	110	2	NE	0.0014 J	0.0027	0.0036
Dieldrin	60-57-1	3.4	0.04	1	0.0018 U	0.005	0.0054
Endosulfan I	959-98-8	1400	470	NE	0.0018 U	0.0018 U	0.0017 U
Endosulfan II	33213-65-9	1400	470	NE	0.0018 U	0.0018 U	0.0017 U
Endosulfan sulfate	1031-07-8	1100	NE	NE	0.0018 U	0.0018 U	0.0017 U
Endrin	72-20-8	57	23	NE	0.0018 U	0.0018 U	0.0017 U
Endrin aldehyde	7421-93-4	NE	NE	NE	0.0018 U	0.0018 U	0.0017 U
Endrin ketone	53494-70-5	NE	NE	NE	0.0018 U	0.0018 U	0.0017 U
Heptachlor	76-44-8	13	0.1	0.1	0.0018 U	0.0018 U	0.0017 U
Heptachlor epoxide	1024-57-3	3.1	0.07	5	0.0018 U	0.0018 U	0.0017 U
Methoxychlor	72-43-5	950	390	NE	0.0088 U	0.0087 U	0.0085 U
Toxaphene	8001-35-2	17	0.6	89	0.018 U	0.018 U	0.017 U
Herbicides (milligrams per kilogram)							
2,4,5-T	93-76-5	1900	NE	NE	0.042 U	0.042 U	0.043 U
2,4-D	94-75-7	2100	780	NE	0.21 U	0.21 U	0.21 U
2,4-DB	94-82-6	5700	NE	NE	0.016 U	0.016 U	0.016 U
Dicamba	1918-00-9	5700	NE	NE	0.064 U	0.063 U	0.064 U
Dichloroprop	120-36-5	NE	NE	NE	0.14 U	0.14 U	0.14 U
2,4,5-TP (Silvex)	93-72-1	1500	630	NE	0.042 U	0.042 U	0.043 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

CAS - Chemical Abstract Service

HQ - Hazard quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-13
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TAOC - Tier-1 Residential Properties		STOCK-BF-20211026	DUPLICATE-01-20211026	STOCK-TS-20211104
					500-207444-1		500-207914-1
			Ingestion	Inhalation	Backfill	Backfill Duplicate	Topsoil
VOCs (milligrams per kilogram)							
Acetone	67-64-1	180,000	70,000	100,000	0.024 U	0.0098 J	0.014 J
Benzene	71-43-2	120	12	0.8	0.0024 U	0.0019 U	0.0028 U
Bromodichloromethane	75-27-4	29	10	3000	0.0024 U	0.0019 U	0.0028 U
Bromoform	75-25-2	1900	81	53	0.0024 U	0.0019 U	0.0028 UJ
Bromomethane (Methyl bromide)	74-83-9	21	110	10	0.0059 U	0.0048 U	0.0069 U
2-Butanone (MEK)	78-93-3	81000	NE	NE	0.0059 U	0.0048 U	0.0069 U
Carbon disulfide	75-15-0	2300	7800	720	0.0059 U	0.0048 U	0.0069 U
Carbon tetrachloride	56-23-5	65	5	0.3	0.0024 U	0.0019 U	0.0028 U
Chlorobenzene	108-90-7	830	1600	130	0.0024 U	0.0019 U	0.0028 UJ
Chloroethane	75-00-3	41000	NE	NE	0.0059 U	0.0048 U	0.0069 U
Chloroform	67-66-3	32	100	0.3	0.0024 U	0.0019 U	0.0028 UJ
Chloromethane (Methyl chloride)	74-87-3	330	NE	NE	0.0059 U	0.0048 U	0.0069 U
Cyclohexane	110-82-7	20000	NE	NE	0.0024 U	0.0019 U	0.0028 UJ
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.53	0.46	11	0.0059 U	0.0048 U	0.0069 U
Dibromochloromethane	124-48-1	830	1600	1300	0.0024 U	0.0019 U	0.0028 UJ
1,2-Dibromoethane (EDB)	106-93-4	3.6	0.0075	0.17	0.0024 U	0.0019 U	0.0028 U
1,2-Dichlorobenzene	95-50-1	5400	7000	560	0.0024 U	0.0019 U	0.0028 UJ
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	0.0024 U	0.0019 U	0.0028 UJ
1,4-Dichlorobenzene	106-46-7	260	NE	11,000	0.0024 U	0.0019 U	0.0028 UJ
Dichlorodifluoromethane	75-71-8	260	NE	NE	0.0059 UJ	0.0048 UJ	0.0028 UJ
1,1-Dichloroethane	75-34-3	360	7800	1300	0.0024 U	0.0019 U	0.0028 U
1,2-Dichloroethane	107-06-2	46	7	0.4	0.0059 U	0.0048 U	0.0069 U
1,1-Dichloroethene	75-35-4	680	3900	290	0.0024 U	0.0019 U	0.0028 U
cis-1,2-Dichloroethene	156-59-2	470	780	1200	0.0024 U	0.0019 U	0.0028 U
trans-1,2-Dichloroethene	156-60-5	4700	1600	3100	0.0024 U	0.0019 U	0.0028 U
1,2-Dichloropropane	78-87-5	47	9	15	0.0024 U	0.0019 U	0.0028 U
cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE	0.0024 U	0.0019 U	0.0028 UJ
trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE	0.0024 U	0.0019 U	0.0028 UJ
Ethylbenzene	100-41-4	580	7800	400	0.0024 U	0.0019 U	0.0028 U
2-Hexanone	591-78-6	600	NE	NE	0.0059 U	0.0048 U	0.0069 U
Isopropylbenzene	98-82-8	5800	NE	NE	0.0024 U	0.0019 U	0.0028 UJ
Methyl acetate	79-20-9	230000	NE	NE	0.03 U	0.024 U	0.034 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	4700	NE	NE	0.0024 U	0.0019 U	0.0028 U
4-Methyl-2-pentanone	108-10-1	99000	NE	NE	0.0024 U	0.0019 U	0.0028 U
Methylcyclohexane	108-87-2	NE	NE	NE	0.0024 U	0.0019 U	0.0028 U
Methylene chloride	75-09-2	1000	85	13	0.0059 U	0.0048 U	0.0069 U
Styrene	100-42-5	18000	16000	1500	0.0024 U	0.0019 U	0.0028 UJ
1,1,2,2-Tetrachloroethane	79-34-5	60	NE	NE	0.0024 U	0.0019 U	0.0028 U
Tetrachloroethene	127-18-4	240	12	11	0.0024 U	0.0019 U	0.0028 U
Toluene	108-88-3	15000	16000	650	0.0024 U	0.0019 U	0.0028 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20000	NE	NE	0.0024 U	0.0019 U	0.0028 U
1,2,4-Trichlorobenzene	120-82-1	170	780	3200	0.0024 U	0.0019 U	0.0028 UJ
1,1,1-Trichloroethane	71-55-6	24000	NE	1200	0.0024 U	0.0019 U	0.0028 U
1,1,2-Trichloroethane	79-00-5	4.5	310	1800	0.0024 U	0.0019 U	0.0028 U
Trichloroethene	79-01-6	12	58	5	0.0024 U	0.0019 U	0.0028 U
Trichlorofluoromethane	75-69-4	70000	NE	NE	0.0059 U	0.0048 U	0.0069 U
Vinyl chloride	75-01-4	5.9	0.46	0.28	0.0024 U	0.0019 U	0.0028 U
Xylenes (total)	1330-20-7	1700	16000	320	0.0047 U	0.0038 U	0.0055 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

TAOC - Tiered Approach to Corrective Action Objectives

TS - Topsoil

VOC - Volatile Organic Compound

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TAOC ingestion criteria

Indicates the result exceeds the TAOC inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-14
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TACO - Tier-1 Residential Properties		STOCK-BF-20211026	DUPLICATE-01-20211026	STOCK-TS-20211104
					500-207444-1	500-207914-1	Topsoil
			Ingestion	Inhalation	10/26/2021	10/26/2021	11/4/2021
SVOCs (milligrams per kilogram)							
Acenaphthene	83-32-9	11000	4700	NE	0.029 J	0.052	0.039 U
Acenaphthylene	208-96-8	NE	NE	NE	0.019 J	0.02 J	0.039 U
Acetophenone	98-86-2	23000	NE	NE	0.36 UJ	0.37 U	0.39 U
Anthracene	120-12-7	54000	23000	NE	0.034 J	0.072	0.039 U
Atrazine	1912-24-9	240	2700	NE	0.36 UJ	0.37 U	0.39 U
Benzaldehyde	100-52-7	17000	NE	NE	1.4 U	1.5 U	1.6 U
Benzo(a)anthracene	56-55-3	110	1.8 *	NE	0.077	0.17 J	0.019 J
Benzo(a)pyrene	50-32-8	11	2.1 *	NE	0.087	0.14	0.022 J
Benzo(b)fluoranthene	205-99-2	110	2.1 *	NE	0.099	0.17	0.039
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	0.043	0.065	0.019 J
Benzo(k)fluoranthene	207-08-9	1100	9	NE	0.043	0.092 J	0.012 J
1,1'-Biphenyl	92-52-4	140	NE	NE	0.18 UJ	0.19 U	0.2 U
4-Bromophenyl phenyl ether	101-55-3	NE	NE	NE	0.18 UJ	0.19 U	0.2 U
Butyl benzyl phthalate	85-68-7	29000	16000	930	0.18 UJ	0.19 U	0.2 U
Caprolactam	105-60-2	94000	NE	NE	0.36 UJ	0.37 U	0.39 U
Carbazole	86-74-8	NE	32	NE	0.18 UJ	0.19 U	0.2 U
bis (2-Chloro-1-methylethyl) ether	108-60-1	9400	NE	NE	0.18 UJ	0.19 U	0.2 U
4-Chloro-3-methyl phenol	59-50-7	19000	NE	NE	0.36 U	0.37 U	0.39 U
4-Chloroaniline	106-47-8	270	310	NE	0.72 UJ	0.75 U	0.79 U
bis(2-Chloroethoxy)methane	111-91-1	570	NE	NE	0.18 UJ	0.19 U	0.2 U
bis(2-Chloroethyl)ether	111-44-4	23	0.6	0.2	0.18 UJ	0.19 U	0.2 U
2-Chloronaphthalene	91-58-7	14000	NE	NE	0.18 UJ	0.19 U	0.2 U
2-Chlorophenol	95-57-8	1200	390	53000	0.18 UJ	0.19 U	0.2 U
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	NE	0.18 UJ	0.19 U	0.2 U
Chrysene	218-01-9	11000	88	NE	0.088	0.17	0.029 J
Dibenzo(a,h)anthracene	53-70-3	11	0.09	NE	0.011 J	0.037 U	0.039 U
Dibenzofuran	132-64-9	230	NE	NE	0.18 UJ	0.19 U	0.2 U
3,3'-Dichlorobenzidine	91-94-1	120	1	NE	0.18 UJ	0.19 U	0.2 U
2,4-Dichlorophenol	120-83-2	570	230	NE	0.36 U	0.37 U	0.39 U
Diethylphthalate	84-66-2	150000	63000	2000	0.18 UJ	0.19 U	0.2 U
Dimethyl phthalate	131-11-3	NE	NE	NE	0.18 UJ	0.19 U	0.2 U
2,4-Dimethylphenol	105-67-9	3800	1600	NE	0.14 U	0.37 U	0.39 U
Di-n-butyl phthalate	84-74-2	19000	7800	2300	0.18 UJ	0.19 U	0.2 U
4,6-Dinitro-2-methylphenol	534-52-1	15	NE	NE	0.72 U	0.75 U	0.79 U
2,4-Dinitrophenol	51-28-5	380	160	NE	0.72 U	0.75 U	0.79 U
2,4-Dinitrotoluene	121-14-2	170	0.9	NE	0.18 UJ	0.19 U	0.2 U
2,6-Dinitrotoluene	606-20-2	36	0.9	NE	0.18 UJ	0.19 U	0.2 U
Di-n-octylphthalate	117-84-0	1900	1600	10000	0.18 UJ	0.19 U	0.2 U
bis(2-Ethylhexyl)phthalate	117-81-7	3800	46	31000	0.18 UJ	0.19 U	0.2 U
Fluoranthene	206-44-0	7200	3100	NE	0.12	0.27	0.048
Fluorene	86-73-7	7200	3100	NE	0.0054 J	0.037 U	0.039 U
Hexachlorobenzene	118-74-1	21	0.4	1	0.072 UJ	0.075 U	0.079 U
Hexachlorobutadiene	87-68-3	120	NE	NE	0.18 UJ	0.19 U	0.2 U
Hexachlorocyclopentadiene	77-47-4	5.3	550	10	0.72 UJ	0.75 U	0.79 U
Hexachloroethane	67-72-1	130	78	NE	0.18 UJ	0.19 U	0.2 U
Indeno(1,2,3-c,d)pyrene	193-39-5	110	1.6 *	NE	0.036 J	0.065 J+	0.021 J
Isothorone	78-59-1	38000	15600	4600	0.04 U	0.19 U	0.2 U
2-Methylnaphthalene	91-57-6	720	NE	NE	0.016 J-	0.018 J	0.079 UJ
2-Methylphenol	95-48-7	9500	3900	NE	0.18 U	0.19 U	0.2 U
3+4-Methylphenol	106-44-5	19000	NE	NE	0.06	0.062	0.2 U
Naphthalene	91-20-3	390	1600	170	0.011 J	0.027 J	0.039 U
2-Nitroaniline	88-74-4	1900	NE	NE	0.18 UJ	0.19 U	0.2 U
3-Nitroaniline	99-09-2	NE	NE	NE	0.36 UJ	0.37 U	0.39 U
4-Nitroaniline	100-01-6	760	NE	NE	0.36 UJ	0.37 U	0.39 U
Nitrobenzene	98-95-3	380	39	92	0.009 U	0.037 U	0.039 U
2-Nitrophenol	88-75-5	NE	NE	NE	0.085 U	0.37 U	0.39 U
4-Nitrophenol	100-02-7	NE	NE	NE	0.72 U	0.75 U	0.79 U
N-Nitrosodi-n-propylamine	621-64-7	7.8	0.09	NE	0.072 UJ	0.075 U	0.079 U
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	11000	130	NE	0.18 UJ	0.19 U	0.2 U
Pentachlorophenol	87-86-5	100	3	NE	0.72 U	0.75 UJ	0.79 U
Phenanthrene	85-01-8	NE	NE	NE	0.099 J	0.19 J+	0.018 J
Phenol	108-95-2	57000	23000	NE	0.18 U	0.19 U	0.2 U
Pyrene	129-00-0	5400	2300	NE	0.15	0.26	0.032 J
2,4,5-Trichlorophenol	95-95-4	19000	7800	NE	0.36 U	0.37 U	0.39 U
2,4,6-Trichlorophenol	88-06-2	190	58	200	0.36 U	0.37 U	0.39 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

SVOC - Semi-Volatile Organic Compound

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-15
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

					Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		STOCK-BF-20211026	DUPLICATE-01-20211026	STOCK-TS-20211104
					500-207444-1		500-207914-1
			Ingestion	Inhalation	Backfill	Backfill Duplicate	Topsoil
TAL Metals (milligrams per kilogram)					10/26/2021	10/26/2021	11/4/2021
Aluminum	7429-90-5	230000	NE	NE	5500	5400	16000
Antimony	7440-36-0	94	31	NE	2.1 U	2.1 U	2.4 UJ
Arsenic	7440-38-2	68	13 *	750	6.4	6.4	8.1
Barium	7440-39-3	46000	5500	690000	26	26	98
Beryllium	7440-41-7	470	160	1300	0.57 J+	0.55	0.95
Cadmium	7440-43-9	210	78	1800	0.2 U	0.21 U	0.26 J+
Calcium	7440-70-2	NE	NE	NE	85000	89000	12000 J
Chromium	7440-47-3	NE	230	270	9.3	9.1	20
Cobalt	7440-48-4	70	4700	NE	7.2	7.3	14
Copper	7440-50-8	9400	2900	NE	18	17	22
Iron	7439-89-6	160000	NE	NE	13000	14000	24000
Lead	7439-92-1	400	400	NE	14	15	24
Magnesium	7439-95-4	NE	325000	NE	43000	42000	7800 J
Manganese	7439-96-5	5500	1600	69000	330	330	580 J
Mercury	7439-97-6	33	23	10	0.037	0.031	38
Nickel	7440-02-0	4600	1600	13000	18	18	27
Potassium	7440-09-7	15,000	NE	NE	1700	1800	2300 J+
Selenium	7782-49-2	1200	390	NE	1.1 U	1.1 U	1.2 U
Silver	7440-22-4	1200	390	NE	0.14 J	0.26 J	0.63
Sodium	7440-23-5	NE	NE	NE	160	140	83 J
Thallium	7440-28-0	2.3	6.3	NE	1.1 U	1.1 U	1.2 U
Vanadium	7440-62-2	1200	550	NE	12	12	30
Zinc	7440-66-6	70000	23000	NE	50	50	71
PCBs (milligrams per kilogram)							
PCB-1016	12674-11-2	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1221	11104-28-2	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1232	11141-16-5	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1242	53469-21-9	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1248	12672-29-6	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1254	11097-69-1	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1260	11096-82-5	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1262	37324-23-5	23	1	NE	0.0019 U	0.0018 U	0.0019 U
PCB-1268	11100-14-4	23	1	NE	0.0019 U	0.0018 U	0.0019 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

PCB - Polychlorinated biphenyl

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TAL - Target Analyte List

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

J - - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-16
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
					STOCK-BF-20211026	DUPLICATE-01-20211026	STOCK-TS-20211104
					500-207444-1		500-207914-1
			Ingestion	Inhalation	Backfill	Backfill Duplicate	Topsoil
Pesticides (milligrams per kilogram)							
Aldrin	309-00-2	3.9	0.04	3	0.0019 U	0.0019 U	0.002 U
gamma-BHC (Lindane)	58-89-9	64	0.5	NE	0.0019 U	0.0019 U	0.002 U
alpha-BHC	319-84-6	8.6	0.1	0.8	0.0019 U	0.0019 U	0.002 U
beta-BHC	319-85-7	30	NE	NE	0.0019 U	0.0019 U	0.002 U
delta-BHC	319-86-8	NE	NE	NE	0.0019 U	0.0019 U	0.002 UJ
cis-Chlordane	5103-71-9	NE	NE	NE	0.0019 U	0.0019 U	0.002 U
trans-Chlordane	5103-74-2	NE	NE	NE	0.0019 U	0.0019 U	0.002 U
4,4'-DDD	72-54-8	5.7	3	NE	0.0019 U	0.0019 U	0.002 U
4,4'-DDE	72-55-9	70	2	NE	0.0022 J	0.0022	0.0014 J
4,4'-DDT	50-29-3	110	2	NE	0.003 J	0.0016 J	0.0021
Dieldrin	60-57-1	3.4	0.04	1	0.0019 U	0.0019 U	0.0016 J
Endosulfan I	959-98-8	1400	470	NE	0.0019 U	0.0019 U	0.002 U
Endosulfan II	33213-65-9	1400	470	NE	0.0019 U	0.0019 U	0.002 U
Endosulfan sulfate	1031-07-8	1100	NE	NE	0.0019 U	0.0019 U	0.002 U
Endrin	72-20-8	57	23	NE	0.0019 U	0.0019 U	0.002 U
Endrin aldehyde	7421-93-4	NE	NE	NE	0.0019 U	0.0019 U	0.002 U
Endrin ketone	53494-70-5	NE	NE	NE	0.0019 U	0.0019 U	0.002
Heptachlor	76-44-8	13	0.1	0.1	0.0019 U	0.0019 U	0.002 U
Heptachlor epoxide	1024-57-3	3.1	0.07	5	0.0019 U	0.0019 U	0.002 U
Methoxychlor	72-43-5	950	390	NE	0.0092 U	0.0091 U	0.0095 U
Toxaphene	8001-35-2	17	0.6	89	0.0019 U	0.018 U	0.019 U
Herbicides (milligrams per kilogram)							
2,4,5-T	93-76-5	1900	NE	NE	0.380 U	0.0018 U	0.380 U
2,4-D	94-75-7	2100	780	NE	0.380 U	0.0022 U	0.380 U
2,4-DB	94-82-6	5700	NE	NE	0.380 U	0.0056 U	0.380 U
Dicamba	1918-00-9	5700	NE	NE	0.380 U	0.0022 U	0.380 U
Dichloroprop	120-36-5	NE	NE	NE	0.380 U	0.0022 U	0.380 U
2,4,5-TP (Silvex)	93-72-1	1500	630	NE	0.380 U	0.0093	0.380 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

CAS - Chemical Abstract Service

HQ - Hazard quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-17
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TACO - Tier-1 Residential Properties		STOCK-BF-20220329	STOCK-TS-20220324	DUPLICATE-01-20220324
			Ingestion	Inhalation	500-214143-2	500-214143-1	
					Backfill	Topsoil	Topsoil Duplicate
VOCs (milligrams per kilogram)							
1,1,1-Trichloroethane	71-55-6	24000	NE	1200	0.0017 U	0.0022 U	0.0022 U
1,1,2,2-Tetrachloroethane	79-34-5	60	NE	NE	0.0017 U	0.0022 U	0.0022 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20000	NE	NE	0.0017 U	0.0022 U	0.0022 U
1,1,2-Trichloroethane	79-00-5	4.5	310	1800	0.0017 UJ	0.0022 U	0.0022 U
1,1-Dichloroethane	75-34-3	360	7800	1300	0.0017 UJ	0.0022 U	0.0022 U
1,1-Dichloroethene	75-35-4	680	3900	290	0.0017 U	0.0022 U	0.0022 U
1,2,4-Trichlorobenzene	120-82-1	170	780	3200	0.0017 UJ	0.0022 U	0.0022 U
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.53	0.46	11	0.0043 UJ	0.0055 U	0.0055 U
1,2-Dichlorobenzene	95-50-1	5400	7000	560	0.0017 UJ	0.0022 U	0.0022 U
1,2-Dichloroethane	107-06-2	46	7	0.4	0.0043 UJ	0.0055 U	0.0055 U
1,2-Dichloropropane	78-87-5	47	9	15	0.0017 UJ	0.0022 U	0.0022 U
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	0.0017 UJ	0.0022 U	0.0022 U
1,4-Dichlorobenzene	106-46-7	260	NE	11,000	0.0017 UJ	0.0022 U	0.0022 U
2-Hexanone	591-78-6	600	NE	NE	0.0043 UJ	0.0055 U	0.0055 U
Acetone	67-64-1	180,000	70,000	100,000	0.017 U	0.022 U	0.022 U
Benzene	71-43-2	120	12	0.8	0.0017 UJ	0.0022 U	0.0022 U
Bromodichloromethane	75-27-4	29	10	3000	0.0017 UJ	0.0022 U	0.0022 U
Bromoform	75-25-2	1900	81	53	0.0017 UJ	0.0022 U	0.0022 U
Bromomethane (Methyl bromide)	74-83-9	21	110	10	0.0043 U	0.0055 U	0.0055 U
Carbon disulfide	75-15-0	2300	7800	720	0.0043 UJ	0.0055 U	0.0055 U
Carbon tetrachloride	56-23-5	65	5	0.3	0.0017 U	0.0022 U	0.0022 U
Chlorobenzene	108-90-7	830	1600	130	0.0017 UJ	0.0022 U	0.0022 U
Chloroethane	75-00-3	41000	NE	NE	0.0043 UJ	0.0055 U	0.0055 U
Chloroform	67-66-3	32	100	0.3	0.0017 U	0.0022 U	0.0022 U
Chloromethane (Methyl chloride)	74-87-3	330	NE	NE	0.0043 UJ	0.0055 U	0.0055 U
cis-1,2-Dichloroethene	156-59-2	470	780	1200	0.0017 UJ	0.0022 U	0.0022 U
cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE	0.0017 UJ	0.0022 U	0.0022 U
Cyclohexane	110-82-7	20000	NE	NE	0.0017 UJ	0.0022 U	0.0022 U
Dibromochloromethane	124-48-1	830	1600	1300	0.0017 UJ	0.0022 U	0.0022 U
Dichlorodifluoromethane	75-71-8	260	NE	NE	0.0043 U	0.0055 U	0.0055 U
Ethylbenzene	100-41-4	580	7800	400	0.0017 UJ	0.0022 U	0.0022 U
1,2-Dibromoethane (EDB)	106-93-4	3.6	0.0075	0.17	0.0017 UJ	0.0022 U	0.0022 U
Isopropylbenzene	98-82-8	5800	NE	NE	0.0017 UJ	0.0022 U	0.0022 U
Methyl acetate	79-20-9	230000	NE	NE	0.021 UJ	0.028 U	0.027 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	81000	NE	NE	0.0043 U	0.0055 U	0.0055 U
4-Methyl-2-pentanone	108-10-1	99000	NE	NE	0.0043 U	0.0055 U	0.0055 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	4700	NE	NE	0.0017 U	0.0022 U	0.0022 U
Methylecyclohexane	108-87-2	NE	NE	NE	0.0017 UJ	0.0022 U	0.0022 U
Methylene chloride	75-09-2	1000	85	13	0.0043 UJ	0.0055 U	0.0055 U
Styrene	100-42-5	18000	16000	1500	0.0017 UJ	0.0022 U	0.0022 U
Tetrachloroethene	127-18-4	240	12	11	0.0017 UJ	0.0022 U	0.0022 U
Toluene	108-88-3	15000	16000	650	0.0017 UJ	0.0022 U	0.0022 U
trans-1,2-Dichloroethene	156-60-5	4700	1600	3100	0.0017 UJ	0.0022 U	0.0022 U
trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE	0.0017 UJ	0.0022 U	0.0022 U
Trichloroethene	79-01-6	12	58	5	0.0017 UJ	0.0022 U	0.0022 U
Trichlorofluoromethane	75-69-4	70000	NE	NE	0.0043 U	0.0055 U	0.0055 U
Vinyl chloride	75-01-4	5.9	0.46	0.28	0.0017 U	0.0022 U	0.0022 U
Xylenes (total)	1330-20-7	1700	16000	320	0.0034 UJ	0.0044 U	0.0044 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

VOC - Volatile Organic Compound

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-18
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
					STOCK-BF-20220329	STOCK-TS-20220324	DUPLICATE-01-20220324
			500-214143-2		500-214143-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
SVOCs (milligrams per kilogram)							
1,1'-Biphenyl	92-52-4	140	NE	NE	0.190 U	0.220 U	0.210 U
bis (2-Chloro-1-methylethyl) ether	108-60-1	9400	NE	NE	0.190 U	0.220 UJ	0.210 UJ
2,4,5-Trichlorophenol	95-95-4	19000	7800	NE	0.370 U	0.430 U	0.420 U
2,4,6-Trichlorophenol	88-06-2	190	58	200	0.370 U	0.430 U	0.420 U
2,4-Dichlorophenol	120-83-2	570	230	NE	0.370 U	0.430 U	0.420 U
2,4-Dinitrophenol	51-28-5	380	160	NE	0.740 U	0.870 U	0.850 U
2,4-Dinitrotoluene	121-14-2	170	0.9	NE	0.190 U	0.220 U	0.210 U
2,6-Dinitrotoluene	606-20-2	36	0.9	NE	0.190 U	0.220 U	0.210 U
2-Chloronaphthalene	91-58-7	14000	NE	NE	0.190 U	0.220 U	0.210 U
2-Chlorophenol	95-57-8	1200	390	53000	0.190 U	0.220 U	0.210 U
2-Methylnaphthalene	91-57-6	720	NE	NE	0.027 J	0.085 U	0.085 U
2-Methylphenol	95-48-7	9500	3900	NE	0.190 U	0.220 U	0.210 U
2-Nitroaniline	88-74-4	1900	NE	NE	0.190 U	0.220 U	0.210 U
2-Nitrophenol	88-75-5	NE	NE	NE	0.370 U	0.430 U	0.420 U
3+4-Methylphenol	106-44-5	19000	NE	NE	0.190 U	0.220 U	0.210 U
3,3'-Dichlorobenzidine	91-94-1	120	1	NE	0.190 U	0.220 U	0.210 U
3-Nitroaniline	99-09-2	NE	NE	NE	0.370 U	0.430 U	0.420 U
4,6-Dinitro-2-methylphenol	534-52-1	15	NE	NE	0.740 U	0.870 U	0.850 U
4-Bromophenyl phenyl ether	101-55-3	NE	NE	NE	0.190 U	0.220 U	0.210 U
4-Chloro-3-methyl phenol	59-50-7	19000	NE	NE	0.370 U	0.430 U	0.420 U
4-Chloroaniline	106-47-8	270	310	NE	0.740 U	0.870 U	0.850 U
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	NE	0.190 U	0.220 U	0.210 U
4-Nitroaniline	100-01-6	760	NE	NE	0.370 U	0.430 U	0.420 U
4-Nitrophenol	100-02-7	NE	NE	NE	0.740 U	0.870 U	0.850 U
Acenaphthene	83-32-9	11000	4700	NE	0.065	0.043 U	0.042 U
Acenaphthylene	208-96-8	NE	NE	NE	0.026 J	0.043 U	0.042 U
Acetophenone	98-86-2	23000	NE	NE	0.370 U	0.430 U	0.420 U
Anthracene	120-12-7	54000	23000	NE	0.048	0.043 U	0.042 U
Atrazine	1912-24-9	240	2700	NE	0.370 U	0.430 U	0.420 U
Benzaldehyde	100-52-7	17000	NE	NE	1.5 U	1.7 U	1.7 U
Benzo(a)anthracene	56-55-3	110	1.8 *	NE	0.1	0.043 U	0.0063 J
Benzo(a)pyrene	50-32-8	11	2.1 *	NE	0.12	0.043 U	0.042 U
Benzo(b)fluoranthene	205-99-2	110	2.1 *	NE	0.12	0.0095 U	0.001 J
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	0.055 J-	0.043 UJ	0.042 UJ
Benzo(k)fluoranthene	207-08-9	1100	9	NE	0.054	0.043 U	0.042 U
bis(2-Chloroethoxy)methane	111-91-1	570	NE	NE	0.190 U	0.220 U	0.210 U
bis(2-Chloroethyl)ether	111-44-4	23	0.6	0.2	0.190 U	0.220 U	0.210 U
bis(2-Ethylhexyl)phthalate	117-81-7	3800	46	31000	0.190 U	0.220 U	0.210 U
Butyl benzyl phthalate	85-68-7	29000	16000	930	0.190 U	0.220 U	0.210 U
Caprolactam	105-60-2	94000	NE	NE	0.370 U	0.430 U	0.420 U
Carbazole	86-74-8	NE	32	NE	0.190 U	0.220 U	0.210 U
Chrysene	218-01-9	11000	88	NE	0.13	0.043 U	0.042 U
Dibenzo(a,h)anthracene	53-70-3	11	0.09	NE	0.015 J	0.043 UJ	0.042 UJ
Dibenzofuran	132-64-9	230	NE	NE	0.190 U	0.220 U	0.210 U
Diethylphthalate	84-66-2	150000	63000	2000	0.190 U	0.220 U	0.210 U
Dimethyl phthalate	131-11-3	NE	NE	NE	0.190 U	0.220 U	0.210 U
2,4-Dimethylphenol	105-67-9	3800	1600	NE	0.190 U	0.220 U	0.210 U
Di-n-butyl phthalate	84-74-2	19000	7800	2300	0.190 U	0.220 U	0.210 U
Di-n-octylphthalate	117-84-0	1900	1600	10000	0.190 U	0.220 U	0.210 U
Fluoranthene	206-44-0	7200	3100	NE	0.17	0.012 J	0.013 J
Fluorene	86-73-7	7200	3100	NE	0.024 J	0.043 U	0.042 U
Hexachlorobenzene	118-74-1	21	0.4	1	0.074 U	0.087 U	0.085 U
Hexachlorobutadiene	87-68-3	120	NE	NE	0.190 U	0.220 U	0.210 U
Hexachlorocyclopentadiene	77-47-4	5.3	550	10	0.740 UJ	0.870 U	0.850 U
Hexachloroethane	67-72-1	130	78	NE	0.190 U	0.220 U	0.210 U
Indeno(1,2,3-c,d)pyrene	193-39-5	110	1.6 *	NE	0.045	0.043 UJ	0.042 UJ
Isophorone	78-59-1	38000	15600	4600	0.190 U	0.220 U	0.210 U
Naphthalene	91-20-3	390	1600	170	0.021 J	0.043 U	0.042 U
Nitrobenzene	98-95-3	380	39	92	0.037 U	0.043 U	0.042 U
N-Nitrosodi-n-propylamine	621-64-7	7.8	0.09	NE	0.074 U	0.087 UJ	0.085 UJ
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	11000	130	NE	0.190 U	0.220 U	0.210 U
Pentachlorophenol	87-86-5	100	3	NE	0.740 U	0.870 U	0.850 U
Phenanthrene	85-01-8	NE	NE	NE	0.11	0.0064 J	0.0072 J
Phenol	108-95-2	57000	23000	NE	0.190 U	0.220 U	0.210 U
Pyrene	129-00-0	5400	2300	NE	0.22	0.0086 J	0.01 J

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

SVOC - Semi-Volatile Organic Compound

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J - - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-19
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
					STOCK-BF-20220329	STOCK-TS-20220324	DUPLICATE-01-20220324
					500-214143-2	500-214143-1	
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
TAL Metals (milligrams per kilogram)							
Aluminum	7429-90-5	230000	NE	NE	4800	15000	15000
Antimony	7440-36-0	94	31	NE	2.1 UJ	2.2 UJ	2.3 U
Arsenic	7440-38-2	68	13 *	750	7.0 J-	5.2	4.7
Barium	7440-39-3	46000	5500	690000	28	130	120
Beryllium	7440-41-7	470	160	1300	0.5	1	1
Cadmium	7440-43-9	210	78	1800	0.21 U	0.22 U	0.23 U
Calcium	7440-70-2	NE	NE	NE	86000	11000	7900
Chromium	7440-47-3	NE	230	270	7.2 J	22	23
Cobalt	7440-48-4	70	4700	NE	7	8.8	7.4
Copper	7440-50-8	9400	2900	NE	18	21	22
Iron	7439-89-6	160000	NE	NE	11000	19000	19000
Lead	7439-92-1	400	400	NE	16	21 J+	20
Magnesium	7439-95-4	NE	325000	NE	43000	7000	5400
Manganese	7439-96-5	5500	1600	69000	310	270 J	220
Mercury	7439-97-6	33	23	10	0.026 J+	0.044	0.044
Nickel	7440-02-0	4600	1600	13000	18	24	23
Potassium	7440-09-7	15,000	NE	NE	1400 J+	1400 J+	1500
Selenium	7782-49-2	1200	390	NE	1.0 U	1.1 U	1.2 U
Silver	7440-22-4	1200	390	NE	0.53 U	0.43 J	0.41 J
Sodium	7440-23-5	NE	NE	NE	120	94 J	97 J
Thallium	7440-28-0	2.3	6.3	NE	1.0 U	0.6 J	1.2 U
Vanadium	7440-62-2	1200	550	NE	11	30	31
Zinc	7440-66-6	70000	23000	NE	53 J-	74	73
PCBs (milligrams per kilogram)							
PCB-1016	12674-11-2	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1221	11104-28-2	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1232	11141-16-5	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1242	53469-21-9	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1248	12672-29-6	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1254	11097-69-1	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1260	11096-82-5	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1262	37324-23-5	23	1	NE	0.0018 U	0.0021 U	0.0021 U
PCB-1268	11100-14-4	23	1	NE	0.0018 U	0.0021 U	0.0021 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

PCB - Polychlorinated biphenyl

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TAL - Target Analyte List

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

J - - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-20
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected			
				Ingestion		STOCK-BF-20220329	STOCK-TS-20220324
				Inhalation		500-214143-2	DUPLICATE-01-20220324
				Backfill	Topsoil	Topsoil Duplicate	3/24/2022
Pesticides (milligrams per kilogram)							
Aldrin	309-00-2	3.9	0.04	3	0.0092 U	0.0022 U	0.0021 U
alpha-BHC	319-84-6	8.6	0.1	0.8	0.0092 U	0.0022 U	0.0021 U
beta-BHC	319-85-7	30	NE	NE	0.0092 U	0.0022 U	0.0021 U
delta-BHC	319-86-8	NE	NE	NE	0.0092 U	0.0022 U	0.0021 U
cis-Chlordane	5103-71-9	NE	NE	NE	0.0092 U	0.0022 U	0.0021 U
4,4'-DDD	72-54-8	5.7	3	NE	0.011 J-	0.0022 U	0.0021 U
4,4'-DDE	72-55-9	70	2	NE	0.0092 U	0.0022 U	0.0021 U
4,4'-DDT	50-29-3	110	2	NE	0.0045 J-	0.0022 U	0.0016 J
Dieldrin	60-57-1	3.4	0.04	1	0.0092 U	0.004	0.0061
Endosulfan I	959-98-8	1400	470	NE	0.0092 U	0.0022 U	0.0021 U
Endosulfan II	33213-65-9	1400	470	NE	0.0092 U	0.0022 U	0.0021 U
Endosulfan sulfate	1031-07-8	1100	NE	NE	0.0092 U	0.0022 U	0.0021 U
Endrin	72-20-8	57	23	NE	0.0092 U	0.0022 U	0.0021 U
Endrin aldehyde	7421-93-4	NE	NE	NE	0.0092 U	0.0022 U	0.0021 U
Endrin ketone	53494-70-5	NE	NE	NE	0.0092 U	0.0022 U	0.0021 U
gamma-BHC (Lindane)	58-89-9	64	0.5	NE	0.0092 U	0.0022 U	0.0021 U
Heptachlor	76-44-8	13	0.1	0.1	0.0092 U	0.0022 U	0.0021 U
Heptachlor epoxide	1024-57-3	3.1	0.07	5	0.0092 U	0.0022 U	0.0021 U
Methoxychlor	72-43-5	950	390	NE	0.045 U	0.011 U	0.01 U
Toxaphene	8001-35-2	17	1	89	0.091 U	0.021 UJ	0.021 UJ
trans-Chlordane	5103-74-2	NE	NE	NE	0.0092 U	0.0022 U	0.0021 U
Herbicides (milligrams per kilogram)							
2,4,5-T	93-76-5	1900	NE	NE	0.370 UJ	0.420 U	0.420 UJ
2,4-D	94-75-7	2100	780	NE	0.370 UJ	0.420 UJ	0.420 UJ
2,4-DB	94-82-6	5700	NE	NE	0.370 UJ	0.420 UJ	0.420 UJ
Dicamba	1918-00-9	5700	NE	NE	0.370 UJ	0.420 UJ	0.420 UJ
Dichloroprop	120-36-5	NE	NE	NE	0.370 UJ	0.420 UJ	0.420 UJ
2,4,5-TP (Silvex)	93-72-1	1500	630	NE	0.370 UJ	0.420 UJ	0.420 UJ

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

CAS - Chemical Abstract Service

HQ - Hazard quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

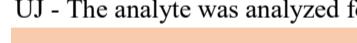
J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

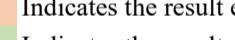
J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

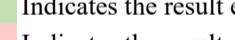
NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

 Indicates the result exceeds the EPA RML

 Indicates the result exceeds the TACO ingestion criteria

 Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-21
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TACO - Tier-1 Residential Properties		STOCK-BF-20220718	STOCK-TS-20220718	DUPLICATE-01-20220718
					500-219549-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
VOCs (milligrams per kilogram)							
1,1,1-Trichloroethane	71-55-6	24000	NE	1200	0.0019 U	0.0025 U	0.0029 U
1,1,2,2-Tetrachloroethane	79-34-5	60	NE	NE	0.0019 UJ	0.0025 U	0.0029 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20000	NE	NE	0.0019 U	0.0025 U	0.0029 U
1,1,2-Trichloroethane	79-00-5	4.5	310	1800	0.0019 UJ	0.0025 U	0.0029 U
1,1-Dichloroethane	75-34-3	360	7800	1300	0.0019 U	0.0025 U	0.0029 U
1,1-Dichloroethene	75-35-4	680	3900	290	0.0019 U	0.0025 U	0.0029 U
1,2,4-Trichlorobenzene	120-82-1	170	780	3200	0.0019 UJ	0.0025 U	0.0029 U
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.53	0.46	11	0.0046 UJ	0.0063 U	0.0072 U
1,2-Dichlorobenzene	95-50-1	5400	7000	560	0.0019 UJ	0.0025 U	0.0029 U
1,2-Dichloroethane	107-06-2	46	7	0.4	0.0046 U	0.0063 U	0.0072 U
1,2-Dichloropropane	78-87-5	47	9	15	0.0019 UJ	0.0025 U	0.0029 U
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	0.0019 UJ	0.0025 U	0.0029 U
1,4-Dichlorobenzene	106-46-7	260	NE	11,000	0.0019 UJ	0.0025 U	0.0029 U
2-Hexanone	591-78-6	600	NE	NE	0.0046 U	0.0063 U	0.0072 U
Acetone	67-64-1	180,000	70,000	100,000	0.019 U	0.025 U	0.029 U
Benzene	71-43-2	120	12	0.8	0.0019 U	0.0025 U	0.0029 U
Bromodichloromethane	75-27-4	29	10	3000	0.0019 U	0.0025 U	0.0029 U
Bromoform	75-25-2	1900	81	53	0.0019 UJ	0.0025 U	0.0029 U
Bromomethane (Methyl bromide)	74-83-9	21	110	10	0.0046 U	0.0063 U	0.0072 U
Carbon disulfide	75-15-0	2300	7800	720	0.0046 UJ	0.0063 U	0.0072 U
Carbon tetrachloride	56-23-5	65	5	0.3	0.0019 U	0.0025 U	0.0029 U
Chlorobenzene	108-90-7	830	1600	130	0.0019 UJ	0.0025 U	0.0029 U
Chloroethane	75-00-3	41000	NE	NE	0.0046 U	0.0063 U	0.0072 U
Chloroform	67-66-3	32	100	0.3	0.0019 U	0.0025 U	0.0029 U
Chloromethane (Methyl chloride)	74-87-3	330	NE	NE	0.0046 U	0.0063 U	0.0072 U
cis-1,2-Dichloroethene	156-59-2	470	780	1200	0.0019 U	0.0025 U	0.0029 U
cis-1,3-Dichloropropene	10061-01-5	NE	NE	NE	0.0019 UJ	0.0025 U	0.0029 U
Cyclohexane	110-82-7	20000	NE	NE	0.0019 UJ	0.0025 U	0.0029 U
Dibromochloromethane	124-48-1	830	1600	1300	0.0019 UJ	0.0025 U	0.0029 U
Dichlorodifluoromethane	75-71-8	260	NE	NE	0.0046 U	0.0063 U	0.0072 U
Ethylbenzene	100-41-4	580	7800	400	0.0019 UJ	0.0025 U	0.0029 U
1,2-Dibromoethane (EDB)	106-93-4	3.6	0.0075	0.17	0.0019 UJ	0.0025 U	0.0029 U
Isopropylbenzene	98-82-8	5800	NE	NE	0.0019 UJ	0.0025 U	0.0029 U
Methyl acetate	79-20-9	230000	NE	NE	0.023 U	0.031 U	0.036 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	81000	NE	NE	0.0046 U	0.0063 U	0.0072 U
4-Methyl-2-pentanone	108-10-1	99000	NE	NE	0.0046 U	0.0063 U	0.0072 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	4700	NE	NE	0.0019 U	0.0025 U	0.0029 U
Methylecyclohexane	108-87-2	NE	NE	NE	0.0019 UJ	0.0025 U	0.0029 U
Methylene chloride	75-09-2	1000	85	13	0.0046 U	0.0063 U	0.0072 U
Styrene	100-42-5	18000	16000	1500	0.0019 UJ	0.0025 U	0.0029 U
Tetrachloroethene	127-18-4	240	12	11	0.0019 U	0.0025 U	0.0029 U
Toluene	108-88-3	15000	16000	650	0.0019 UJ	0.0025 U	0.0029 U
trans-1,2-Dichloroethene	156-60-5	4700	1600	3100	0.0019 U	0.0025 U	0.0029 U
trans-1,3-Dichloropropene	10061-02-6	NE	NE	NE	0.0019 UJ	0.0025 U	0.0029 U
Trichloroethene	79-01-6	12	58	5	0.0019 UJ	0.0025 U	0.0029 U
Trichlorofluoromethane	75-69-4	70000	NE	NE	0.0046 U	0.0063 U	0.0072 U
Vinyl chloride	75-01-4	5.9	0.46	0.28	0.0019 U	0.0025 U	0.0029 U
Xylenes (total)	1330-20-7	1700	16000	320	0.0037 UJ	0.005 U	0.0058 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

VOC - Volatile Organic Compound

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-22
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TACO - Tier-1 Residential Properties		STOCK-BF-20220718	STOCK-TS-20220718	DUPLICATE-01-20220718
			Ingestion	Inhalation	500-219549-1	Backfill	Topsoil
					7/18/2022	7/18/2022	7/18/2022
SVOCs (milligrams per kilogram)							
1,1'-Biphenyl	92-52-4	140	NE	NE	0.19 U	0.19 U	0.18 U
bis (2-Chloro-1-methylethyl) ether	108-60-1	9400	NE	NE	0.19 U	0.19 U	0.18 U
2,4,5-Trichlorophenol	95-95-4	19000	7800	NE	0.37 U	0.38 U	0.36 U
2,4,6-Trichlorophenol	88-06-2	190	58	200	0.37 U	0.38 U	0.36 U
2,4-Dichlorophenol	120-83-2	570	230	NE	0.37 U	0.38 U	0.36 U
2,4-Dinitrophenol	51-28-5	380	160	NE	0.75 U	0.76 U	0.74 U
2,4-Dinitrotoluene	121-14-2	170	0.9	NE	0.19 U	0.19 U	0.18 U
2,6-Dinitrotoluene	606-20-2	36	0.9	NE	0.19 U	0.19 U	0.18 U
2-Chloronaphthalene	91-58-7	14000	NE	NE	0.19 U	0.19 U	0.18 U
2-Chlorophenol	95-57-8	1200	390	53000	0.19 U	0.19 U	0.18 U
2-Methylnaphthalene	91-57-6	720	NE	NE	0.023 J	0.076 U	0.074 U
2-Methylphenol	95-48-7	9500	3900	NE	0.19 U	0.19 U	0.18 U
2-Nitroaniline	88-74-4	1900	NE	NE	0.19 U	0.19 U	0.18 U
2-Nitrophenol	88-75-5	NE	NE	NE	0.37 U	0.38 U	0.36 U
3+4-Methylphenol	15831-10-4	19000	NE	NE	0.19 U	0.19 U	0.18 U
3,3'-Dichlorobenzidine	91-94-1	120	1	NE	0.19 U	0.19 U	0.18 U
3-Nitroaniline	99-09-2	NE	NE	NE	0.37 U	0.38 U	0.36 U
4,6-Dinitro-2-methylphenol	534-52-1	15	NE	NE	0.75 U	0.76 U	0.74 U
4-Bromophenyl phenyl ether	101-55-3	NE	NE	NE	0.19 U	0.19 U	0.18 U
4-Chloro-3-methyl phenol	59-50-7	19000	NE	NE	0.37 U	0.38 U	0.36 U
4-Chloroaniline	106-47-8	270	310	NE	0.75 U	0.76 U	0.74 U
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	NE	0.19 U	0.19 U	0.18 U
4-Nitroaniline	100-01-6	760	NE	NE	0.37 U	0.38 U	0.36 U
4-Nitrophenol	100-02-7	NE	NE	NE	0.75 U	0.76 U	0.74 U
Acenaphthene	83-32-9	11000	4700	NE	0.044	0.038 U	0.036 U
Acenaphthylene	208-96-8	NE	NE	NE	0.028 J	0.038 U	0.036 U
Acetophenone	98-86-2	23000	NE	NE	0.37 U	0.38 U	0.36 U
Anthracene	120-12-7	54000	23000	NE	0.044	0.038 U	0.036 U
Atrazine	1912-24-9	240	2700	NE	0.37 U	0.38 U	0.36 U
Benzaldehyde	100-52-7	17000	NE	NE	1.5 U	1.5 U	1.5 U
Benzo(a)anthracene	56-55-3	110	1.8 *	NE	0.083	0.025 J	0.03 J
Benzo(a)pyrene	50-32-8	11	2.1 *	NE	0.092	0.043	0.05
Benzo(b)fluoranthene	205-99-2	110	2.1 *	NE	0.094	0.062	0.068
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	0.049 J-	0.021 J	0.025 J
Benzo(k)fluoranthene	207-08-9	1100	9	NE	0.038	0.023 J	0.03 J
bis(2-Chloroethoxy)methane	111-91-1	570	NE	NE	0.19 U	0.19 U	0.18 U
bis(2-Chloroethyl)ether	111-44-4	23	0.6	0.2	0.19 U	0.19 U	0.18 U
bis(2-Ethylhexyl)phthalate	117-81-7	3800	46	31000	0.19 U	0.19 U	0.18 U
Butyl benzyl phthalate	85-68-7	29000	16000	930	0.19 U	0.19 U	0.18 U
Caprolactam	105-60-2	94000	NE	NE	0.37 UJ	0.38 UJ	0.36 UJ
Carbazole	86-74-8	NE	32	NE	0.19 U	0.19 U	0.18 U
Chrysene	218-01-9	11000	88	NE	0.1	0.038	0.043
Dibenzo(a,h)anthracene	53-70-3	11	0.09	NE	0.014 J	0.038 U	0.0075 J
Dibenzofuran	132-64-9	230	NE	NE	0.19 U	0.19 U	0.18 U
Diethylphthalate	84-66-2	150000	63000	2000	0.19 U	0.19 U	0.18 U
Dimethyl phthalate	131-11-3	NE	NE	NE	0.19 U	0.19 U	0.18 U
2,4-Dimethylphenol	105-67-9	3800	1600	NE	0.37 U	0.38 U	0.36 U
Di-n-butyl phthalate	84-74-2	19000	7800	2300	0.19 U	0.19 U	0.18 U
Di-n-octylphthalate	117-84-0	1900	1600	10000	0.19 U	0.19 U	0.18 U
Fluoranthene	206-44-0	7200	3100	NE	0.11	0.039	0.054
Fluorene	86-73-7	7200	3100	NE	0.022 J	0.038 U	0.036 U
Hexachlorobenzene	118-74-1	21	0.4	1	0.075 U	0.076 U	0.074 U
Hexachlorobutadiene	87-68-3	120	NE	NE	0.19 U	0.19 U	0.18 U
Hexachlorocyclopentadiene	77-47-4	5.3	550	10	0.75 UJ	0.76 U	0.74 U
Hexachloroethane	67-72-1	130	78	NE	0.19 U	0.19 U	0.18 U
Indeno(1,2,3-c,d)pyrene	193-39-5	110	1.6 *	NE	0.041	0.019 J	0.024 J
Isophorone	78-59-1	38000	15600	4600	0.19 U	0.19 U	0.18 U
Naphthalene	91-20-3	390	1600	170	0.022 J	0.038 U	0.036 U
Nitrobenzene	98-95-3	380	39	92	0.037 U	0.038 U	0.036 U
N-Nitrosodi-n-propylamine	621-64-7	7.8	0.09	NE	0.075 U	0.076 U	0.074 U
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	11000	130	NE	0.19 U	0.19 U	0.18 U
Pentachlorophenol	87-86-5	100	3	NE	0.75 U	0.76 U	0.74 U
Phenanthrene	85-01-8	NE	NE	NE	0.1	0.018 J	0.029 J
Phenol	108-95-2	57000	23000	NE	0.19 U	0.19 U	0.18 U
Pyrene	129-00-0	5400	2300	NE	0.19	0.047	0.065

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

RML - Removal Management Level

STOCK - Stockpile

SVOC - Semi-Volatile Organic Compound

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J -- The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-23
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

					Sample ID, Laboratory ID, Sample Depth Interval, Date Collected		
Analyte	CAS Number	EPA RML - Residential Soil HQ3	TACO - Tier-1 Residential Properties		STOCK-BF-20220718	STOCK-TS-20220718	DUPLICATE-01-20220718
					500-219549-1		
			Ingestion	Inhalation	Backfill	Topsoil	Topsoil Duplicate
TAL Metals (milligrams per kilogram)							
Aluminum	7429-90-5	230000	NE	NE	4700	16000	16000
Antimony	7440-36-0	94	31	NE	0.43 J-	0.71 J	0.81 J
Arsenic	7440-38-2	68	13 *	750	6.2	7.4	6.6
Barium	7440-39-3	46000	5500	690000	23	140	130
Beryllium	7440-41-7	470	160	1300	0.49 J+	0.95 J+	0.93 J+
Cadmium	7440-43-9	210	78	1800	0.37 J+	0.33 J+	0.32 J+
Calcium	7440-70-2	NE	NE	NE	94000	5100	4600
Chromium	7440-47-3	NE	230	270	8.2	19	19
Cobalt	7440-48-4	70	4700	NE	6.7	8.9	7.8
Copper	7440-50-8	9400	2900	NE	18	22	22
Iron	7439-89-6	160000	NE	NE	13000 J	21000	21000
Lead	7439-92-1	400	400	NE	16	84	60
Magnesium	7439-95-4	NE	325000	NE	53000	3700	3500
Manganese	7439-96-5	5500	1600	69000	300 J	650	350
Mercury	7439-97-6	33	23	10	0.035 J	0.045 J	0.042 J
Nickel	7440-02-0	4600	1600	13000	16	19	19
Potassium	7440-09-7	15,000	NE	NE	1300 J+	1400	1400
Selenium	7782-49-2	1200	390	NE	0.97 UJ	1 UJ	1.1 UJ
Silver	7440-22-4	1200	390	NE	0.21 J	0.53	0.56
Sodium	7440-23-5	NE	NE	NE	120 J+	100 U	110 U
Thallium	7440-28-0	2.3	6.3	NE	0.97 U	1 U	1.1 U
Vanadium	7440-62-2	1200	550	NE	10 J	30	30
Zinc	7440-66-6	70000	23000	NE	58 J	78	77
PCBs (milligrams per kilogram)							
PCB-1016	12674-11-2	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1221	11104-28-2	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1232	11141-16-5	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1242	53469-21-9	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1248	12672-29-6	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1254	11097-69-1	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1260	11096-82-5	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1262	37324-23-5	23	1	NE	0.018 U	0.018 U	0.019 U
PCB-1268	11100-14-4	23	1	NE	0.018 U	0.018 U	0.019 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

* - The Metropolitan Statistical Area background soil concentration is used for the TACO Tier 1 Ingestion Exposure Route screening level

BF - Backfill

EPA - United States Environmental Protection Agency

HQ - Hazard Quotient

PCB - Polychlorinated biphenyl

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TAL - Target Analyte List

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML

Indicates the result exceeds the TACO ingestion criteria

Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 3-24
Backfill Topsoil Source Stockpile Samples
Taracorp Industries RV - Lyons, Illinois

Analyte	CAS Number	EPA RML - Residential Soil HQ3	Sample ID, Laboratory ID, Sample Depth Interval, Date Collected				
			TACO - Tier-1 Residential Properties		STOCK-BF-20220718	STOCK-TS-20220718	DUPLICATE-01-20220718
					500-219549-1	Backfill	Topsoil
			Ingestion	Inhalation	7/18/2022	7/18/2022	7/18/2022
Pesticides (milligrams per kilogram)							
Aldrin	309-00-2	3.9	0.04	3	0.0019 U	0.0019 U	0.0019 U
alpha-BHC	319-84-6	8.6	0.1	0.8	0.0019 U	0.0019 U	0.0019 U
beta-BHC	319-85-7	30	NE	NE	0.0019 U	0.0019 U	0.0019 U
delta-BHC	319-86-8	NE	NE	NE	0.0019 U	0.0019 U	0.0019 U
cis-Chlordane	5103-71-9	NE	NE	NE	0.0019 U	0.0019 U	0.0019 U
4,4'-DDD	72-54-8	5.7	3	NE	0.0022	0.0019 U	0.0019 U
4,4'-DDE	72-55-9	70	2	NE	0.0019 U	0.0019 U	0.0019 U
4,4'-DDT	50-29-3	110	2	NE	0.0018 J	0.00092 J	0.0019 U
Dieldrin	60-57-1	3.4	0.04	1	0.0019 U	0.0026 J	0.0027 J
Endosulfan I	959-98-8	1400	470	NE	0.0019 U	0.0019 U	0.0019 U
Endosulfan II	33213-65-9	1400	470	NE	0.0019 U	0.0019 U	0.0019 U
Endosulfan sulfate	1031-07-8	1100	NE	NE	0.0019 U	0.0019 U	0.0019 U
Endrin	72-20-8	57	23	NE	0.0019 U	0.0019 U	0.0019 U
Endrin aldehyde	7421-93-4	NE	NE	NE	0.0019 U	0.0019 U	0.0019 U
Endrin ketone	53494-70-5	NE	NE	NE	0.0019 U	0.0019 U	0.0019 U
gamma-BHC (Lindane)	58-89-9	64	0.5	NE	0.0019 U	0.0019 U	0.0019 U
Heptachlor	76-44-8	13	0.1	0.1	0.0019 U	0.0019 U	0.0019 U
Heptachlor epoxide	1024-57-3	3.1	0.07	5	0.0019 U	0.0019 U	0.0019 U
Methoxychlor	72-43-5	950	390	NE	0.0092 U	0.0092 U	0.0092 U
Toxaphene	8001-35-2	17	1	89	0.018 U	0.018 U	0.019 U
trans-Chlordane	5103-74-2	NE	NE	NE	0.0019 U	0.0019 U	0.0019 U
Herbicides (milligrams per kilogram)							
2,4,5-T	93-76-5	1900	NE	NE	0.37 UJ	0.37 UJ	0.37 UJ
2,4-D	94-75-7	2100	780	NE	0.37 UJ	0.37 UJ	0.37 UJ
2,4-DB	94-82-6	5700	NE	NE	0.37 UJ	0.37 UJ	0.37 UJ
Dicamba	1918-00-9	5700	NE	NE	0.37 UJ	0.37 U	0.37 U
Dichloroprop	120-36-5	NE	NE	NE	0.37 UJ	0.37 U	0.37 U
2,4,5-TP (Silvex)	93-72-1	1500	630	NE	0.37 UJ	0.37 U	0.37 U

Notes:

All concentrations in milligrams per kilogram (mg/kg)

BF - Backfill

EPA - United States Environmental Protection Agency

CAS - Chemical Abstract Service

HQ - Hazard quotient

RML - Removal Management Level

STOCK - Stockpile

TACO - Tiered Approach to Corrective Action Objectives

TS - Topsoil

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

NE - Not established

U - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

UJ - The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Indicates the result exceeds the EPA RML
Indicates the result exceeds the TACO ingestion criteria
Indicates the result exceeds the TACO inhalation criteria

BOLD = Concentration is the analytical detection limit

Table 4
Air Sample Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample_ID	Sample Date	Start Time	Stop Time	Total Time (Min)	Flow Rate (L/Min)	Total Volume (L)
TI-25-AA-DW-20201005	10/5/2020	1413	1700	167	4.9850	832.495
TI-AA-SA-20201006	10/6/2020	0710	1635	565	3.6500	2062.250
TI-19-AA-RE-20201006	10/6/2020	0715	1640	565	4.0700	2299.550
TI-19-AA-DW-20201006	10/6/2020	0717	1643	566	4.2000	237.200
TI-AA-SA-20201007	10/7/2020	0712	1711	599	4.0560	2429.544
TI-19-AA-RE-20201007	10/7/2020	0708	1655	587	3.9910	2342.717
TI-19-AA-DW-20201007	10/7/2020	0705	1656	591	3.9760	2349.816
TI-AA-SA-20201008	10/8/2020	0745	1649	544	4.1255	2244.272
TI-19-AA-RE-20201008	10/8/2020	0735	1633	538	4.0610	2184.818
TI-19-AA-DW-20201008	10/8/2020	0737	1632	535	4.1740	2233.090
TI-AA-SA-20200928	9/28/2020	0954	1445	291	3.9870	1160.217
TI-25-AA-RE-20200928	9/28/2020	0859	1452	353	4.0165	1417.825
TI-25-AA-DW-20200928	9/28/2020	0855	1451	356	4.0540	1443.224
TI-AA-SA-20200929	9/29/2020	0700	1715	615	4.0750	2506.125
TI-25-AA-RE-20200929	9/29/2020	0705	1710	605	3.9750	2404.875
TI-25-AA-DW-20200929	9/29/2020	0710	1700	590	4.1850	2469.150
TI-AA-SA-20200930	9/30/2020	0730	1715	585	4.2250	2471.625
TI-25-AA-RE-20200930	9/30/2020	0715	1710	595	3.9050	2323.475
TI-25-AA-DW-20200930	9/30/2020	0710	1700	580	3.9700	2302.600
TI-AA-SA-20201005	10/5/2020	1400	1715	195	5.0850	991.575
TI-25-AA-RE-20201005	10/5/2020	1410	1710	180	4.0650	731.700
TI-FB-20200928	9/28/2020	0	0	0	0	0
TI-FB-20200929	9/29/2020	0	0	0	0	0
TI-FB-20200930	9/30/2020	0	0	0	0	0
TI-FB-20201005	10/5/2020	0	0	0	0	0
TI-FB-20201006	10/6/2020	0	0	0	0	0
TI-FB-20201007	10/7/2020	0	0	0	0	0
TI-FB-20201008	10/8/2020	0	0	0	0	0

Table 4
Air Sample Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample_ID	Sample Date	Start Time	Stop Time	Total Time (Min)	Flow Rate (L/Min)	Total Volume (L)
TI-06-AA-RE-20210511	5/11/2021	0739	1637	538	4.0008	2152.4
TI-32-AA-DW-20210507	5/7/2021	0739	1645	546	4.0536	2213.3
TI-32-AA-RE-20210507	5/7/2021	0735	1624	529	4.0881	2162.6
TI-32-AA-RE-20210511	5/11/2021	0735	1647	552	4.0205	2219.3
TI-37-AA-DW-20210430	4/30/2021	0720	1636	556	4.0933	2275.8
TI-37-AA-RE-20210430	4/30/2021	0721	1634	553	4.0437	2236.2
TI-49-AA-DW-20210513	5/13/2021	0717	1638	561	4.0223	2256.5
TI-49-AA-RE-20210513	5/13/2021	0720	1638	558	4.0323	2250.0
TI-51-AA-DW-20210505	5/5/2021	0752	1650	538	4.0499	2178.8
TI-51-AA-RE-20210505	5/5/2021	0754	1638	524	4.0110	2101.7
TI-66-AA-DW-20210421	4/21/2021	0731	1649	558	3.8768	2163.2
TI-66-AA-DW-20210423	4/23/2021	0736	1647	551	4.0745	2245.0
TI-66-AA-DW-20210426	4/26/2021	0735	1632	537	3.9922	2143.8
TI-66-AA-DW-20210428	4/28/2021	0735	1557	502	4.0424	2029.3
TI-66-AA-RE-20210421	4/21/2021	0729	1654	565	3.9499	2231.7
TI-66-AA-RE-20210423	4/23/2021	0740	1647	547	4.1190	2253.1
TI-66-AA-RE-20210426	4/26/2021	0735	1632	537	3.9128	2101.1
TI-66-AA-RE-20210428	4/28/2021	0730	1550	500	4.1024	2051.2
TI-67-AA-DW-20210503	5/3/2021	0738	1615	517	4.1065	2123.0
TI-67-AA-RE-20210503	5/3/2021	0732	1620	528	4.0415	2133.9
TI-AA-DUP-20210421	4/21/2021	0752	1707	555	3.9573	2196.3
TI-AA-DUP-20210423	4/23/2021	0748	1655	547	4.1307	2259.5
TI-AA-DUP-20210426	4/26/2021	0755	1657	542	3.9871	2161.0
TI-AA-DUP-20210428	4/28/2021	0750	1611	501	4.0825	2045.3
TI-AA-DUP-20210430	4/30/2021	0729	1643	554	4.0390	2237.6
TI-AA-DUP-20210503	5/3/2021	0749	1628	519	3.9538	2052.0
TI-AA-DUP-20210505	5/5/2021	0810	1653	523	3.9289	2054.8
TI-AA-DUP-20210507	5/7/2021	0755	1654	539	4.0476	2181.7
TI-AA-DUP-20210511	5/11/2021	0755	1657	542	3.9638	2148.4
TI-AA-DUP-20210513	5/13/2021	0731	1647	556	4.0283	2239.7
TI-AA-SA-20210421	4/21/2021	0752	1707	555	3.8955	2162.0
TI-AA-SA-20210423	4/23/2021	0748	1655	547	4.1467	2268.2
TI-AA-SA-20210426	4/26/2021	0755	1657	542	3.9654	2149.2
TI-AA-SA-20210428	4/28/2021	0750	1611	501	4.0972	2052.7
TI-AA-SA-20210430	4/30/2021	0729	1643	554	4.0607	2249.6
TI-AA-SA-20210503	5/3/2021	0749	1628	519	4.0170	2084.8
TI-AA-SA-20210505	5/5/2021	0810	1653	523	4.0433	2114.6
TI-AA-SA-20210507	5/7/2021	0755	1654	539	4.0774	2197.7
TI-AA-SA-20210511	5/11/2021	0755	1657	542	3.9649	2148.9
TI-AA-SA-20210513	5/13/2021	0731	1647	556	4.0187	2234.4
TI-AB-20210421	4/21/2021	0	0	0	0	0

Table 4
Air Sample Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

TI-AB-20210423	4/23/2021	0	0	0	0	0
TI-AB-20210426	4/26/2021	0	0	0	0	0
TI-AB-20210428	4/28/2021	0	0	0	0	0
TI-AB-20210430	4/30/2021	0	0	0	0	0
TI-AB-20210503	5/3/2021	0	0	0	0	0
TI-AB-20210505	5/5/2021	0	0	0	0	0
TI-AB-20210507	5/7/2021	0	0	0	0	0
TI-AB-20210511	5/11/2021	0	0	0	0	0
TI-AB-20210513	5/13/2021	0	0	0	0	0
TI-LB-20210512	5/12/2021	0	0	0	0	0

Table 4
Air Sample Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample_ID	Sample Date	Start Time	Stop Time	Total Time (Min)	Flow Rate (L/Min)	Total Volume (L)
TI-122-AA-DW-20220509	5/9/2022	820	1640	500	4.0608	2030.4
TI-122-AA-DW-20220510	5/10/2022	745	1650	545	3.9788	2168.4
TI-122-AA-RE-20220509	5/9/2022	815	1635	500	4.0061	2003.1
TI-122-AA-RE-20220510	5/10/2022	750	1645	535	3.9191	2096.7
TI-123-AA-DW-20220429	4/29/2022	840	1645	485	4.0453	1962.0
TI-123-AA-RE-20220429	4/29/2022	835	1640	485	4.0802	1978.9
TI-13-AA-DW-20220425	4/25/2022	815	1640	505	4.0697	2055.2
TI-13-AA-DW-20220502	5/2/2022	750	1650	540	4.0397	2181.4
TI-13-AA-DW-20220504	5/4/2022	752	1630	518	3.9989	2071.4
TI-13-AA-DW-20220511	5/11/2022	825	1650	505	3.9886	2014.2
TI-13-AA-DW-20220512	5/12/2022	755	1630	515	3.8325	1973.7
TI-13-AA-DW-20220513	5/13/2022	755	1620	505	3.9963	2018.1
TI-13-AA-RE-20220425	4/25/2022	810	1635	505	4.0482	2044.3
TI-13-AA-RE-20220502	5/2/2022	755	1655	540	4.0274	2174.8
TI-13-AA-RE-20220504	5/4/2022	752	1623	511	3.8759	1980.6
TI-13-AA-RE-20220511	5/11/2022	820	1645	505	3.8886	1963.7
TI-13-AA-RE-20220512	5/12/2022	750	1625	515	3.9672	2043.1
TI-13-AA-RE-20220513	5/13/2022	750	1615	505	3.8398	1939.1
TI-23-AA-DW-20220426	4/26/2022	755	1650	535	4.0524	2168.0
TI-23-AA-RE-20220426	4/26/2022	750	1645	535	4.0409	2161.9
TI-AA-DUP-20220425	4/25/2022	745	1625	520	4.0088	1044.6
TI-AA-DUP-20220426	4/26/2022	735	1625	530	3.9483	2092.6
TI-AA-DUP-20220429	4/29/2022	820	1630	490	4.0170	1968.3
TI-AA-DUP-20220502	5/2/2022	740	1635	535	4.0399	2161.3
TI-AA-DUP-20220504	5/4/2022	742	1617	515	4.0609	2091.4
TI-AA-DUP-20220509	5/9/2022	835	1650	495	3.9770	1968.6
TI-AA-DUP-20220510	5/10/2022	730	1630	540	3.8354	2071.1
TI-AA-DUP-20220511	5/11/2022	730	1630	540	3.8961	2103.9
TI-AA-DUP-20220512	5/12/2022	730	1600	510	3.9062	1992.1
TI-AA-DUP-20220513	5/13/2022	730	1600	510	3.9086	1993.4
TI-AA-SA-20220425	4/25/2022	745	1625	520	4.1175	2141.1
TI-AA-SA-20220426	4/26/2022	735	1625	530	3.9910	2115.2
TI-AA-SA-20220429	4/29/2022	820	1630	490	4.0421	1980.6
TI-AA-SA-20220502	5/2/2022	740	1635	535	3.8060	2036.2
TI-AA-SA-20220504	5/4/2022	742	1617	515	3.9798	2049.6
TI-AA-SA-20220509	5/9/2022	835	1650	495	3.9322	1946.4
TI-AA-SA-20220510	5/10/2022	730	1630	540	3.8708	2090.2
TI-AA-SA-20220511	5/11/2022	730	1630	540	3.9194	2116.5
TI-AA-SA-20220512	5/12/2022	730	1600	510	3.9682	2023.8
TI-AA-SA-20220513	5/13/2022	730	1600	510	3.9480	2013.5
TI-FB-20220425	4/25/2022	0	0	0	0	0
TI-FB-20220426	4/26/2022	0	0	0	0	0

Table 4
Air Sample Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

TI-FB-20220429	4/29/2022	0	0	0	0	0
TI-FB-20220502	5/2/2022	0	0	0	0	0
TI-FB-20220504	5/4/2022	0	0	0	0	0
TI-FB-20220509	5/9/2022	0	0	0	0	0
TI-FB-20220510	5/10/2022	0	0	0	0	0
TI-FB-20220511	5/11/2022	0	0	0	0	0
TI-FB-20220512	5/12/2022	0	0	0	0	0
TI-FB-20220513	5/13/2022	0	0	0	0	0
TI-LB-20210516	5/16/2021	0	0	0	0	0

Notes:

AA Ambient Air
AB Air Blank
DW Downwind
DUP Duplicate
LB Lab Blank
RE Residential entry
SA Staging Area
TI Taracorp Industries
---- No target analytes were detected.

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample ID	Analyte	Units	Result	Qualifier
TI-19-AA-DW-20201006	Arsenic	mg/m3	0.000210	U
TI-19-AA-DW-20201006	Lead	mg/m3	0.000105	U
TI-19-AA-DW-20201007	Arsenic	mg/m3	0.000213	U
TI-19-AA-DW-20201007	Lead	mg/m3	0.000106	U
TI-19-AA-DW-20201008	Arsenic	mg/m3	0.000224	U
TI-19-AA-DW-20201008	Lead	mg/m3	0.000112	U
TI-19-AA-RE-20201006	Arsenic	mg/m3	0.000217	U
TI-19-AA-RE-20201006	Lead	mg/m3	0.000109	U
TI-19-AA-RE-20201007	Arsenic	mg/m3	0.000213	U
TI-19-AA-RE-20201007	Lead	mg/m3	0.000107	U
TI-19-AA-RE-20201008	Arsenic	mg/m3	0.000229	U
TI-19-AA-RE-20201008	Lead	mg/m3	0.000114	U
TI-25-AA-DW-202000928	Arsenic	mg/m3	0.000346	U
TI-25-AA-DW-202000928	Lead	mg/m3	0.000173	U
TI-25-AA-DW-202000929	Arsenic	mg/m3	0.000202	U
TI-25-AA-DW-202000929	Lead	mg/m3	0.000101	U
TI-25-AA-DW-202000930	Arsenic	mg/m3	0.000217	U
TI-25-AA-DW-202000930	Lead	mg/m3	0.000109	U
TI-25-AA-DW-20201005	Arsenic	mg/m3	0.000601	U
TI-25-AA-DW-20201005	Lead	mg/m3	0.000300	U
TI-25-AA-RE-202000928	Arsenic	mg/m3	0.000353	U
TI-25-AA-RE-202000928	Lead	mg/m3	0.000176	U
TI-25-AA-RE-202000929	Arsenic	mg/m3	0.000208	U
TI-25-AA-RE-202000929	Lead	mg/m3	0.000104	U
TI-25-AA-RE-202000930	Arsenic	mg/m3	0.000215	U
TI-25-AA-RE-202000930	Lead	mg/m3	0.000108	U
TI-25-AA-RE-20201005	Arsenic	mg/m3	0.000683	U
TI-25-AA-RE-20201005	Lead	mg/m3	0.000342	U
TI-AA-SA-202000928	Arsenic	mg/m3	0.000431	U
TI-AA-SA-202000928	Lead	mg/m3	0.000215	U
TI-AA-SA-202000929	Arsenic	mg/m3	0.000200	U
TI-AA-SA-202000929	Lead	mg/m3	0.0000998	U
TI-AA-SA-202000930	Arsenic	mg/m3	0.000202	U
TI-AA-SA-202000930	Lead	mg/m3	0.000101	U
TI-AA-SA-20201005	Arsenic	mg/m3	0.000504	U
TI-AA-SA-20201005	Lead	mg/m3	0.000252	U
TI-AA-SA-20201006	Arsenic	mg/m3	0.000242	U
TI-AA-SA-20201006	Lead	mg/m3	0.000390	
TI-AA-SA-20201007	Arsenic	mg/m3	0.000206	U
TI-AA-SA-20201007	Lead	mg/m3	0.000103	U
TI-AA-SA-20201008	Arsenic	mg/m3	0.000223	U
TI-AA-SA-20201008	Lead	mg/m3	0.000111	U
TI-FB-20200928	Arsenic	mg/m3	----	U

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample ID	Analyte	Units	Result	Qualifier
TI-FB-20200928	Lead	mg/m3	----	U
TI-FB-20200929	Arsenic	mg/m3	----	U
TI-FB-20200929	Lead	mg/m3	----	U
TI-FB-20200930	Arsenic	mg/m3	----	U
TI-FB-20200930	Lead	mg/m3	----	U
TI-FB-20201005	Arsenic	mg/m3	----	U
TI-FB-20201005	Lead	mg/m3	----	U
TI-FB-20201006	Arsenic	mg/m3	----	U
TI-FB-20201006	Lead	mg/m3	----	U
TI-FB-20201007	Arsenic	mg/m3	----	U
TI-FB-20201007	Lead	mg/m3	----	U
TI-FB-20201008	Arsenic	mg/m3	----	U
TI-FB-20201008	Lead	mg/m3	----	U

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Samp_No	Analyte	Units	Result	Qualifier
TI-AA-SA-20210421	Arsenic	mg/m3	0.000231	U
TI-AA-SA-20210421	Lead	mg/m3	0.000297	J+
TI-66-AA-RE-20210421	Arsenic	mg/m3	0.000224	U
TI-66-AA-RE-20210421	Lead	mg/m3	0.000143	J+
TI-66-AA-DW-20210421	Arsenic	mg/m3	0.000231	U
TI-66-AA-DW-20210421	Lead	mg/m3	0.000116	U
TI-AA-DUP-20210421	Arsenic	mg/m3	0.000228	U
TI-AA-DUP-20210421	Lead	mg/m3	0.000145	J+
TI-AA-SA-20210423	Arsenic	mg/m3	0.000220	U
TI-AA-SA-20210423	Lead	mg/m3	0.000110	U
TI-66-AA-RE-20210423	Arsenic	mg/m3	0.000222	U
TI-66-AA-RE-20210423	Lead	mg/m3	0.000111	U
TI-66-AA-DW-20210423	Arsenic	mg/m3	0.000223	U
TI-66-AA-DW-20210423	Lead	mg/m3	0.000111	U
TI-AA-DUP-20210423	Arsenic	mg/m3	0.000221	U
TI-AA-DUP-20210423	Lead	mg/m3	0.000111	U
TI-AA-SA-20210426	Arsenic	mg/m3	0.000233	U
TI-AA-SA-20210426	Lead	mg/m3	0.000116	U
TI-66-AA-RE-20210426	Arsenic	mg/m3	0.000238	U
TI-66-AA-RE-20210426	Lead	mg/m3	0.000119	U
TI-66-AA-DW-20210426	Arsenic	mg/m3	0.000233	U
TI-66-AA-DW-20210426	Lead	mg/m3	0.000117	U
TI-AA-DUP-20210426	Arsenic	mg/m3	0.000231	U
TI-AA-DUP-20210426	Lead	mg/m3	0.000116	U
TI-AA-SA-20210428	Arsenic	mg/m3	0.000244	U
TI-AA-SA-20210428	Lead	mg/m3	0.000122	U
TI-66-AA-RE-20210428	Arsenic	mg/m3	0.000244	U
TI-66-AA-RE-20210428	Lead	mg/m3	0.000122	U
TI-66-AA-DW-20210428	Arsenic	mg/m3	0.000246	U
TI-66-AA-DW-20210428	Lead	mg/m3	0.000123	U
TI-AA-DUP-20210428	Arsenic	mg/m3	0.000244	U
TI-AA-DUP-20210428	Lead	mg/m3	0.000122	U
TI-AA-SA-20210430	Arsenic	mg/m3	0.000222	U
TI-AA-SA-20210430	Lead	mg/m3	0.000111	U
TI-37-AA-RE-20210430	Arsenic	mg/m3	0.000224	U
TI-37-AA-RE-20210430	Lead	mg/m3	0.000112	U
TI-37-AA-DW-20210430	Arsenic	mg/m3	0.000220	U
TI-37-AA-DW-20210430	Lead	mg/m3	0.000110	U
TI-AA-DUP-20210430	Arsenic	mg/m3	0.000223	U
TI-AA-DUP-20210430	Lead	mg/m3	0.000112	U
TI-AA-SA-20210503	Arsenic	mg/m3	0.000240	U
TI-AA-SA-20210503	Lead	mg/m3	0.000120	U

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Samp_No	Analyte	Units	Result	Qualifier
TI-67-AA-RE-20210503	Arsenic	mg/m3	0.00147	
TI-67-AA-RE-20210503	Lead	mg/m3	0.00156	
TI-67-AA-DW-20210503	Arsenic	mg/m3	0.000236	U
TI-67-AA-DW-20210503	Lead	mg/m3	0.000118	U
TI-AA-DUP-20210503	Arsenic	mg/m3	0.000244	U
TI-AA-DUP-20210503	Lead	mg/m3	0.00122	U
TI-AA-SA-20210505	Arsenic	mg/m3	0.000236	U
TI-AA-SA-20210505	Lead	mg/m3	0.000118	U
TI-51-AA-RE-20210505	Arsenic	mg/m3	0.000238	U
TI-51-AA-RE-20210505	Lead	mg/m3	0.000119	U
TI-51-AA-DW-20210505	Arsenic	mg/m3	0.000229	U
TI-51-AA-DW-20210505	Lead	mg/m3	0.000115	U
TI-AA-DUP-20210505	Arsenic	mg/m3	0.000243	U
TI-AA-DUP-20210505	Lead	mg/m3	0.000122	U
TI-AA-SA-20210507	Arsenic	mg/m3	0.000228	U
TI-AA-SA-20210507	Lead	mg/m3	0.000114	U
TI-32-AA-RE-20210507	Arsenic	mg/m3	0.000231	U
TI-32-AA-RE-20210507	Lead	mg/m3	0.000116	U
TI-32-AA-DW-20210507	Arsenic	mg/m3	0.000226	U
TI-32-AA-DW-20210507	Lead	mg/m3	0.000113	U
TI-AA-DUP-20210507	Arsenic	mg/m3	0.000229	U
TI-AA-DUP-20210507	Lead	mg/m3	0.000115	U
TI-AA-SA-20210511	Arsenic	mg/m3	0.000233	U
TI-AA-SA-20210511	Lead	mg/m3	0.000116	U
TI-32-AA-RE-20210511	Arsenic	mg/m3	0.000225	U
TI-32-AA-RE-20210511	Lead	mg/m3	0.000113	U
TI-06-AA-RE-20210511	Arsenic	mg/m3	0.000232	U
TI-06-AA-RE-20210511	Lead	mg/m3	0.000116	U
TI-AA-DUP-20210511	Arsenic	mg/m3	0.000233	U
TI-AA-DUP-20210511	Lead	mg/m3	0.000116	U
TI-AA-SA-20210513	Arsenic	mg/m3	0.000224	U
TI-AA-SA-20210513	Lead	mg/m3	0.000112	U
TI-49-AA-RE-20210513	Arsenic	mg/m3	0.000222	U
TI-49-AA-RE-20210513	Lead	mg/m3	0.000111	U
TI-49-AA-DW-20210513	Arsenic	mg/m3	0.000222	U
TI-49-AA-DW-20210513	Lead	mg/m3	0.000111	U
TI-AA-DUP-20210513	Arsenic	mg/m3	0.000223	U
TI-AA-DUP-20210513	Lead	mg/m3	0.000112	U
TI-AB-20210421	Arsenic	mg/m3	----	U
TI-AB-20210421	Lead	mg/m3	----	U
TI-AB-20210423	Arsenic	mg/m3	----	U
TI-AB-20210423	Lead	mg/m3	----	U
TI-AB-20210426	Arsenic	mg/m3	----	U

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Samp_No	Analyte	Units	Result	Qualifier
TI-AB-20210426	Lead	mg/m3	----	U
TI-AB-20210428	Arsenic	mg/m3	----	U
TI-AB-20210428	Lead	mg/m3	----	U
TI-AB-20210503	Arsenic	mg/m3	----	U
TI-AB-20210503	Lead	mg/m3	----	U
TI-AB-20210505	Arsenic	mg/m3	----	U
TI-AB-20210505	Lead	mg/m3	----	U
TI-AB-20210507	Arsenic	mg/m3	----	U
TI-AB-20210507	Lead	mg/m3	----	U
TI-AB-20210511	Arsenic	mg/m3	----	U
TI-AB-20210511	Lead	mg/m3	----	U
TI-AB-20210513	Arsenic	mg/m3	----	U
TI-AB-20210513	Lead	mg/m3	----	U
TI-LB-20210512	Arsenic	mg/m3	----	U
TI-LB-20210512	Lead	mg/m3	----	U

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample_ID	Analyte	Units	Result	Qualifier
TI-122-AA-DW-20220509	Arsenic	mg/m3	0.000246	U
TI-122-AA-DW-20220509	Lead	mg/m3	0.000123	U
TI-122-AA-DW-20220510	Arsenic	mg/m3	0.000231	U
TI-122-AA-DW-20220510	Lead	mg/m3	0.000115	U
TI-122-AA-RE-20220509	Arsenic	mg/m3	0.000250	U
TI-122-AA-RE-20220509	Lead	mg/m3	0.000125	U
TI-122-AA-RE-20220510	Arsenic	mg/m3	0.000238	U
TI-122-AA-RE-20220510	Lead	mg/m3	0.000119	U
TI-123-AA-DW-20220429	Arsenic	mg/m3	0.000255	U
TI-123-AA-DW-20220429	Lead	mg/m3	0.000127	U
TI-123-AA-RE-20220429	Arsenic	mg/m3	0.000253	U
TI-123-AA-RE-20220429	Lead	mg/m3	0.000126	U
TI-13-AA-DW-20220425	Arsenic	mg/m3	0.000243	U
TI-13-AA-DW-20220425	Lead	mg/m3	0.000122	U
TI-13-AA-DW-20220502	Arsenic	mg/m3	0.000229	U
TI-13-AA-DW-20220502	Lead	mg/m3	0.000115	U
TI-13-AA-DW-20220504	Arsenic	mg/m3	0.000241	U
TI-13-AA-DW-20220504	Lead	mg/m3	0.000121	U
TI-13-AA-DW-20220511	Arsenic	mg/m3	0.000248	U
TI-13-AA-DW-20220511	Lead	mg/m3	0.000124	U
TI-13-AA-DW-20220512	Arsenic	mg/m3	0.000253	U
TI-13-AA-DW-20220512	Lead	mg/m3	0.000127	U
TI-13-AA-DW-20220513	Arsenic	mg/m3	0.000248	U
TI-13-AA-DW-20220513	Lead	mg/m3	0.000124	U
TI-13-AA-RE-20220425	Arsenic	mg/m3	0.000245	U
TI-13-AA-RE-20220425	Lead	mg/m3	0.000122	U
TI-13-AA-RE-20220502	Arsenic	mg/m3	0.000230	U
TI-13-AA-RE-20220502	Lead	mg/m3	0.000115	U
TI-13-AA-RE-20220504	Arsenic	mg/m3	0.000252	U
TI-13-AA-RE-20220504	Lead	mg/m3	0.000126	U
TI-13-AA-RE-20220511	Arsenic	mg/m3	0.000255	U
TI-13-AA-RE-20220511	Lead	mg/m3	0.000127	U
TI-13-AA-RE-20220512	Arsenic	mg/m3	0.000245	U
TI-13-AA-RE-20220512	Lead	mg/m3	0.000122	U
TI-13-AA-RE-20220513	Arsenic	mg/m3	0.000258	U
TI-13-AA-RE-20220513	Lead	mg/m3	0.000129	U
TI-23-AA-DW-20220426	Arsenic	mg/m3	0.000231	U
TI-23-AA-DW-20220426	Lead	mg/m3	0.000115	U
TI-23-AA-RE-20220426	Arsenic	mg/m3	0.000231	U
TI-23-AA-RE-20220426	Lead	mg/m3	0.000116	U
TI-AA-SA-20220425	Arsenic	mg/m3	0.000234	U
TI-AA-SA-20220425	Lead	mg/m3	0.000117	U
TI-AA-DUP-20220425	Arsenic	mg/m3	0.000479	U

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample_ID	Analyte	Units	Result	Qualifier
TI-AA-DUP-20220425	Lead	mg/m3	0.000239	U
TI-AA-SA-20220426	Arsenic	mg/m3	0.000236	U
TI-AA-SA-20220426	Lead	mg/m3	0.000118	U
TI-AA-DUP-20220426	Arsenic	mg/m3	0.000239	U
TI-AA-DUP-20220426	Lead	mg/m3	0.000119	U
TI-AA-SA-20220429	Arsenic	mg/m3	0.000252	U
TI-AA-SA-20220429	Lead	mg/m3	0.000126	U
TI-AA-DUP-20220429	Arsenic	mg/m3	0.000254	U
TI-AA-DUP-20220429	Lead	mg/m3	0.000127	U
TI-AA-SA-20220502	Arsenic	mg/m3	0.000246	U
TI-AA-SA-20220502	Lead	mg/m3	0.000123	U
TI-AA-DUP-20220502	Arsenic	mg/m3	0.000231	U
TI-AA-DUP-20220502	Lead	mg/m3	0.000116	U
TI-AA-SA-20220504	Arsenic	mg/m3	0.000244	U
TI-AA-SA-20220504	Lead	mg/m3	0.000122	U
TI-AA-DUP-20220504	Arsenic	mg/m3	0.000239	U
TI-AA-DUP-20220504	Lead	mg/m3	0.000120	U
TI-AA-SA-20220509	Arsenic	mg/m3	0.000257	U
TI-AA-SA-20220509	Lead	mg/m3	0.000128	U
TI-AA-DUP-20220509	Arsenic	mg/m3	0.000254	U
TI-AA-DUP-20220509	Lead	mg/m3	0.000127	U
TI-AA-SA-20220510	Arsenic	mg/m3	0.000239	U
TI-AA-SA-20220510	Lead	mg/m3	0.000120	U
TI-AA-DUP-20220510	Arsenic	mg/m3	0.000241	U
TI-AA-DUP-20220510	Lead	mg/m3	0.000121	U
TI-AA-SA-20220511	Arsenic	mg/m3	0.000236	U
TI-AA-SA-20220511	Lead	mg/m3	0.000118	U
TI-AA-DUP-20220511	Arsenic	mg/m3	0.000238	U
TI-AA-DUP-20220511	Lead	mg/m3	0.000119	U
TI-AA-SA-20220512	Arsenic	mg/m3	0.000247	U
TI-AA-SA-20220512	Lead	mg/m3	0.000124	U
TI-AA-DUP-20220512	Arsenic	mg/m3	0.000251	U
TI-AA-DUP-20220512	Lead	mg/m3	0.000125	U
TI-AA-SA-20220513	Arsenic	mg/m3	0.000248	U
TI-AA-SA-20220513	Lead	mg/m3	0.000124	U
TI-AA-DUP-20220513	Arsenic	mg/m3	0.000251	U
TI-AA-DUP-20220513	Lead	mg/m3	0.000125	U
TI-FB-20220425	Arsenic	mg/m3	----	U
TI-FB-20220425	Lead	mg/m3	----	U
TI-FB-20220426	Arsenic	mg/m3	----	U
TI-FB-20220426	Lead	mg/m3	----	U
TI-FB-20220429	Arsenic	mg/m3	----	U
TI-FB-20220429	Lead	mg/m3	----	U

Table 5
Air Sample Results
Taracorp Industries Removal Site
Lyons, Cook County, Illinois

Sample_ID	Analyte	Units	Result	Qualifier
TI-FB-20220502	Arsenic	mg/m3	----	U
TI-FB-20220502	Lead	mg/m3	----	U
TI-FB-20220504	Arsenic	mg/m3	----	U
TI-FB-20220504	Lead	mg/m3	----	U
TI-FB-20220509	Arsenic	mg/m3	----	U
TI-FB-20220509	Lead	mg/m3	----	U
TI-FB-20220510	Arsenic	mg/m3	----	U
TI-FB-20220510	Lead	mg/m3	----	U
TI-FB-20220511	Arsenic	mg/m3	----	U
TI-FB-20220511	Lead	mg/m3	----	U
TI-FB-20220512	Arsenic	mg/m3	----	U
TI-FB-20220512	Lead	mg/m3	----	U
TI-FB-20220513	Arsenic	mg/m3	----	U
TI-FB-20220513	Lead	mg/m3	----	U
TI-LB-20210516	Arsenic	mg/m3	----	U
TI-LB-20210516	Lead	mg/m3	----	U

Notes:

AA Ambient Air

AB Air Blank

DW Downwind

DUP Duplicate

LB Lab Blank

RE Residential entry

SA Staging Area

TI Taracorp Industries

J+ The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

U The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

mg/m³ milligrams per cubic meter

RPL Residential Protection Limit

0.0012 Concentration is above the Site RPL for lead

0.00023 Concentration is above the Site RPL for arsenic

---- No target analytes were detected.

ATTACHMENT 1
LABORATORY REPORTS